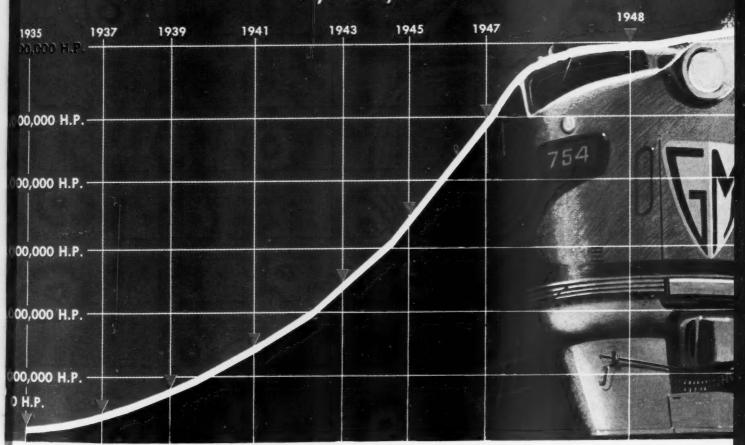
Fransportation

# RAILWAY AGE

JUNE 18, 1949

## GENERAL MOTORS DIESEL HORSEPOWER ON THE RAILROADS TOTALS MORE THAN 7,700,000



The ten millionth horsepower in General Motors heavy-duty Diesel engines was produced by Electro-Motive at La Grange in December, 1948, and the eleven million mark is very close. Of this total over 7,700,000 horsepower has gone into more than 5,600 General Motors Diesel locomotive units in railroad freight, passenger and switching service. Most of the remaining three million horsepower was produced for the United States Navy during World War II to power LST landing ships and SC sub-chasers. Currently, an average of seven complete Diesel locomotive units go to the railroads from Electro-Motive every working day.



ELECTRO-MOTIVE

DIVISION OF GENERAL MOTORS LA GRANGE, ILL.

Home of the Diesel Locomotive



# **Assure Cleaner Operation**

... and get

more mileage
between overhauls
by lubricating with
Texaco Dieseltex HD

G ET all the power and economy your Diesels are built to give you. Lubricate with Texaco Dieseltex HD — made to keep engines free of carbon, sludge and gum formations, assuring more trouble-free operation, greater protection, lower maintenance costs.

Texaco Dieseltex HD lubricating oils for railroad Diesels are fully detergent and dispersive. An exclusive formula, incorporating a special heavy-duty additive, assures high resistance to oxidation. These oils have been proved by rigid laboratory tests and actual road service . . . and more than meet the most stringent requirements of leading Diesel locomotive builders.

Texaco's unique Systematic Engineering Service embodies tests and controls that permit quick, positive evaluation of both engine and lubricating oils. A Texaco Lubrication Engineer will gladly tell you about it. Call the nearest Railway Sales Division office listed below, or write The Texas Company, *Railway Sales Division*, 135 East 42nd Street, New York 17, N. Y.

NEW YORK . CHICAGO . SAN FRANCISCO . ST. PAUL . ST. LOUIS . ATLANTA



## TEXACO Dieseltex HD

FOR ALL RAILROAD DIESELS

Tune in . . . TEXACO STAR THEATRE every Wednesday night starring Milton Berle. See newspaper for time and station.

### RAILWAY AGE

With which are incorporated the Railway Review, the Railway Gazette, and the Railway-Age Gazette. Name Registered in U. S. Patent Office and Trade Marks Office in Canada

#### IN THIS ISSUE

#### EDITORIALS:

ou. ines ble-

are ing on. oad of

nd

nd

ou

w,

nd

#### 

GENERAL NEWS	62
REVENUES AND EXPENSES	75
FREIGHT OPERATING STATISTICS	82
CURRENT PUBLICATIONS	86

#### GENERAL ARTICLES:

B. & O. Puts New "Columbian" in Service	44
First-Quarter Capital Outlays Totaled \$342.6 Million	50
Radio Freed from Wire-Line Linkage, by P. J. Corporon	52
New Objectives for Agricultural Agents, by Edward J. Leenhouts	55
Overhead Conveyor Expedites Freighthouse Operations	56
New and Improved Products of the Manufacturers	59
Pascagoula Builds a Ship Channel	60

Published each Saturday by the Simmons-Boardman Publishing Corporation, Orange, Conn., with Editorial and Executive Offices at 30 Church Street, New York 7, N. Y., and 79 West Monroe Street, Chicago 3, III.

Washington 4, D. C.: 1081 National Press Building—Cleveland 13: Terminal Tower—Seattle 1: 1038 Henry Building—San Francisco 4: 300 Montgomery Street, Rooms 805-806—Los Angeles 14: 530 West 6th Street— Dallas 4: 2909 Maple Avenue. Samuel O. Dunn, Chairman. James G. Lyne, President. S. Wayne Hickey, C. Miles Burpee, H. H. Melville, C. W. Merriken, John R. Thompson, F. C. Koch, R. E. Thayer, H. E. McCandless, Vice-Presidents. J. S. Crane, Vice-President and Secretary. J. T. De-Mott, Treasurer. Ralph E. Westerman, Arthur J. McGinnis, Assistant Treasurers.

C. Miles Burpee, Business Manager. Subscriptions, including 52 regular weekly issues, and special daily editions published from time to time in New York or in places other than New York, payable in advance and postage free—United States, U. S. possessions and Canada: 1 year, \$6.00; 2 years, \$10.00; other countries not including daily editions in Western Hemisphere: 1 year, \$10.00; 2 years, \$16.00; other countries: 1 year, \$15.00; 2 years, \$25.00. Single copies, 50 cents each, except special issues.

H. E. McCandless, Circulation Manager, 30 Church Street, New York 7.

ELECTRO LECTRIC PNEUMATIC Choose the Best Interlocking for YOUR Job!

ARE you planning new interlocking facilities—for faster and more efficient routing of traffic through terminals, junctions, crossings?

Remember, "Union" manufactures all types—can, therefore, recommend and furnish the one best suited for your specific requirements. If traffic is heavy, the almost instantaneous action of electro-pneumatic movements is advantageous in affording greatest speed in lining up routes. For other locations, all-

electric switch machines may be particularly applicable. For either form of power interlocking you may choose from three different types of "Union" control machines.

Ask our engineers to cooperate in studying your problems—the prevailing and anticipated traffic conditions, the physical characteristics of the area, etc.—and in planning the most effective and efficient interlocking plants. Write the nearest "Union" district office.

### **UNION SWITCH & SIGNAL COMPANY**

SWISSVALE

New York

Chicago



PENNSYLVANIA

St. Louis

San Francisco

### **WEEK AT A GLANCE**

CAPITAL EXPENDITURES—AND OTHER SUBJECTS: Gross capital expenditures by Class I line-haul railroads in the first three months of 1949 exceeded \$342 million—26.5 per cent over corresponding expenditures for the first quarter of 1948—according to the latest "Monthly Comment" of the Interstate Commerce Commission's Bureau of Transport Economics and Statistics. The "Comment," summarized on pages 50 and 51, also covers a variety of other subjects, such as payments for lost or damaged freight, shifts in railway motive power, traffic and earnings for the first four months of 1949, and 1948 traffic and earnings of freight forwarders and truckers.

ANOTHER VIEW OF FREIGHT CLAIMS: The "Monthly Comment," on page 50, dealing largely with the past, presents a gloomy view of the freight-claim situation. A more optimistic picture is given in a report, which looks ahead as well as behind, submitted to A.A.R. member roads by the association's Freight Claim Division on June 14. This latter report is briefly summarized in the News pages.

FOUR OUT OF FIVE: Railway Age has frequently asserted, and railroad spokesmen have generally recognized, that one of the railroads' greatest needs is money for improvement of their fixed properties. And one of their greatest problems is the existence of public policies which prevent them from obtaining that money through sale of new securities or from any other source except their limited earnings. The results of this situation are graphically pointed up by the latest "Monthly Comment," which shows that four dollars out of every five spent by Class I railroads for capital improvements in the first quarter of this year went for equipment—and only one dollar out of five for improvements to track or other fixed property.

NO PROBLEM FOR COMPETITORS: But the railroads' truck competitors—whose "tracks" are public highways—don't have any comparable problem in finding money for "capital improvement" of those "tracks." Through their top policy-making group—the socialistic National Highway Users Conference—they just plan bigger and better raids on public treasuries. Our leading editorial (page 41) discusses the socialistic nature of some of that body's proposals.

EXPEDITING FREIGHTHOUSE OPERATION: In these days of intensive competition in transportation, any measures which improve the railroads' ability to meet that competition—by improving, for example, their ability to handle freight carefully and expeditiously—are worthy of special consideration. One such measure, a Link-Belt overhead truck tow system, has recently been installed by the Southern Pacific at its Houston, Tex., freight station. The results, as described in the illustrated article beginning on page 56,

have been to speed up operation, reduce costs and eliminate congestion in a 22-year-old freighthouse built to serve a community which has since grown greatly both in size and industrial activity.

"MAN BITES DOG": If, as the old saying goes, a man biting a dog is news, then the construction of a waterway by local enterprise, and without federal funds, ought to rate all sorts of headlines. But that's exactly what's going on down in Pascagoula, Miss. The story, on page 60, is a refreshing relief from the yowls for "federal aid"; it's a distinct relief from, and a sharp contrast to, such socialistic, "something-for-nothing" philosophies as that of the National Highway Users Conference, outlined in our leading editorial.

PLAYING FOR HIGH STAKES: The old role of railroad agricultural agents as builders of traffic may have declined somewhat in relative importance in recent years, but they now have a bigger and even more important job as builders of railroad good will in rural territories. Why this is so, and what agricultural agents can do about it, were explained by Edward J. Leenhouts of the New York Central at the recent meeting of the American Railway Development Association. Mr. Leenhouts' remarks are abstracted on page 55.

"THE DISTRESSING PART"—about highway competition "is that trucks, by and large, are not in competition with the railroads as a whole, but compete for business only where it offers the most lucrative income." So said a Lackawanna officer at Paterson, N. J., this week. And P. C. Armstrong, C.P.R. economist, recently made a clear, simple and powerful exposition of that nibbling process by which government-subsidized trucks take from the railroads only the best traffic. These identical views on this increasingly serious situation are summarized in the News pages.

SAVING TIME AND MONEY: Both of those worthy objectives have been achieved by the Chicago South Shore & South Bend, through installation on 77 mi. of its electrified line of a new space radio relay system, believed to be the first of its type authorized by the Federal Communications Commission. The installation, and its operation and advantages, are described by P. J. Corporon, assistant superintendent way and structures of the C.S.S. & S.B., in an illustrated article on page 52.

NEW "COLUMBIANS": As previously reported in the News columns of Railway Age, the Baltimore & Ohio has recently put into service new equipment for its all-coach Washington-Chicago "Columbians." The new cars, built by Pullman-Standard, are both described and illustrated in a feature article which starts on page 44.



● RUBBER FILLERS are now supplied as regular practice in Okonite multi-conductor railroad signal and control cables. Results under actual service conditions — as well as from exhaustive laboratory tests — show that rubber fillers offer several important advantages over the jute fillers commonly used in these cables.

First in importance is the elimination of the "wickingin" action of jute fillers when exposed cable ends are subjected to condensation or accidentally submerged. Rubber fillers — inherently waterproof — resist entrance of water at the cable ends, thereby greatly reducing the possibility of cable failure from this source.

Protection is also stepped up against failure originating through accidental damage to the cable's protective covering. Under such vulnerable conditions, rubber fillers do not soak up moisture and draw it into the core of the cable. Thus rubber fillers act as a second

line of defense against moisture all along the cable.

A third important feature is the protection against distortion of conductor insulations when rubber fillers are used. Such distortion — with resultant reduction in the insulating thickness of conductors — can be a problem in multi-conductor cable construction with jute fillers. Experience shows that the use of rubber fillers — in conjunction with Okonite precision manufacturing processes — aids substantially in eliminating this problem.

Rubber fillers are only one of many quality features you'll find in long-lived Okonite wires and cables. When planning your next installation, be sure to have an Okonite engineer give you the detailed reasons why the best cable is your best policy in these days of high installation costs. Please write to The Okonite Company, Passaic, N. J.



### **RAILWAY AGE**

PUBLISHER . . . Samuel O. Dunn

EDITOR . . James G. Lyne

MANAGING EDITOR ...
C. B. Tavenner

WESTERN EDITOR . . . Neal D. Howard

NEWS EDITOR . . . Gardner C. Hudson

WASHINGTON OFFICE ...
Walter J. Taft
A. J. Schuyler

ELECTRICAL DEPARTMENT . . . Alfred G. Oehler

TRANSPORTATION DEPARTMENT... William H. Schmidt, Jr. Robert G. Lewis

MECHANICAL DEPARTMENT ...

C. B. Peck
E. L. Woodward
H. C. Wilcox
C. L. Combes
G. J. Weihofen

ENGINEERING DEPARTMENT . . . M. H. Dick

M. H. Dick Walter L. Turner, Jr. Henry E. Michael Norris V. Engman

PURCHASES & STORES DEPARTMENT . . . John W. Milliken

EQUIPMENT & FINANCIAL NEWS . . . Fred C. Miles

SIGNALING AND COMMUNICATIONS
DEPARTMENT . . .
John H. Dunn
Maurice Peacock

WESTERN NEWS DEPARTMENT... George R. Johnson

ASSOCIATE EDITOR . . . Charles Laying

LIBRARIAN . . . Edith C. Stone

EDITORIAL ASSISTANT . . . Elaine C. Farrar

# HOW FORESIGHTED IS HIGHWAYDOM'S LEADERSHIP?

The top policy-making body of interests which exploit commercially the nation's highway plant is the National Highway Users Conference. It is headed by a manufacturer of automotive vehicles. It has on its board of governors three other such manufacturers and a miscellany of business leaders -none of them, so far as this paper knows, ever identified with any political movement frankly advocating, as a principle, so-called "planning," or the substitution of coercive tax-financing of economic services in place of the operation of a free market. Nevertheless, this Conference sets forth without equivocation its views—which are quite candidly socialistic, coercive and favorable to "planning"—in a pamphlet recently issued under the title "Planning and Financing Our Highways." These views it expresses, in part, as follows:

"The people of this country must\* have roads suitable for the movement of modern traffic with safety, economy and facility. . . .

"These roads must in every instance be predicated on traffic needs\*, and long-term rational planning surveys should point definitely to current and future needs.

. . Every state should have a long-range program of development, but such a program in all of its phases

. . must be consistent with and measured by the taxpayer's ability to payt.

"The revenues from special motor vehicle fees and taxes should be dedicated exclusively to highway purposes.

"It is recognized that there are certain distinct benefits flowing from the availability, construction, improvement and use of highways [the beneficiaries cited being the nation, states and communities; business; other forms of transportation; landowners; and the actual users of the highways]. The recipients of these benefits have a definite responsibility for a share of the cost of highways.

"The federal government should not collect motor vehicle use taxes or special excise taxes . . . since the government's obligation to carry mail and provide for the national defense makes federal highway aid a proper charge against general revenue."

#### **Apply to Railroads Too**

These expressions are indistinguishable from those put forward by advocates of socialized housing or socialized electric power. Highways—at least to the extent that they are built and used for long-haul transportation similar to that provided by the railroads—are "capital goods," in every way comparable to railroad tracks. The National Highway Users Conference does not assert that railroad tracks must be "planned" in advance by some far-seeing political body, or that the cost of them should be assessed

S

<sup>\*</sup>Note the absence of any consideration herein to economic demand, i.e., the willingness of uncoerced customers to finance these facilities by their patronage, paying compensatory prices.—Epiros.

<sup>†</sup>Under a system of economic freedom, prices are derived from the value of the service and its cost—not from "ability to pay."—Editor.

against a lot of "beneficiaries" besides the actual users, but arguments to this effect would apply with the same force to the railroads as to the highways.

The difference between political "planning" and the operation of a free market is that, under the system of economic freedom, political clairvoyants do not have to be called in to determine "needs" for new facilities, and to find people other than the users who can be burdened with the costs. Instead, society depends upon the alertness of some profit-seeking investor to guess what new facilities will earn the highest return, and to be induced thereby to provide them. No country ever placed so much reliance as this one did until recently-not in the wisdom and foresight of political planners but in the selfishness of "capital"—to foresee the people's wants and provide for them; and no other country ever had its economic wants so well cared for. That is the way the railroads were built and long-haul highways could be built in the same way-to the extent that actual economic demand exists for such facilities. By their opposition to toll-financing, the "Highway Users" seem to betray a fear that comparatively little such demand may exist.

#### "Benefits" and "Diversion"

Do the men who comprise the National Highway Users Conference suppose that highways to haul citrus fruits from Florida to New York and steel from Pittsburgh to Detroit can be provided largely at the expense of payers of federal income taxes. and that railroads, meanwhile, to move exactly the same traffic will continue to be provided and maintained by private capital? Are there "benefits" from the moving of such long-haul traffic as this by highway which justify levying a large part of the cost upon federal income-taxpayers and upon landowners, while no such "benefits" accrue when exactly parallel movements of freight are made by railroad?

Since the highways—with deceptively low rates because costs are borne only in part by highway users—are now attracting for long hauls practically all classes of traffic which move by rail, why should there be no "diversion," as the "Highway Users" insist, of highway fees to the payment of general governmental expenses? All tax payments made by the railroads are thus "diverted."

The profit-seeking investors of private capital have ceased offering funds for the improvement of railroad property (as distinguished from rolling stock) and for the replacement of worn-out plant. The only source of funds now available for these purposes is current railroad earnings. It is a serious question to what degree railroad managers are justified in sinking owners' money into replacing worn-out plant which public policy has never permitted to earn more than a pittance for the investors.

John Jewkes, whose book "Ordeal by Planning" provides timely warning from British experience of

the injurious effect on all economic activity of invasion by the "planners," asserts that "in a free economy prices must be linked to cost." Elsewhere in the same work he says: "The market economy is simply a device for creating automatic regulations which will enable us to provide for physical needs by the most economical route, of pushing economic problems into a corner to be forgotten, like the thermostat in a house. . . ."

No other organization in the country is doing a more expert or timely job of inquiry into and dissemination of the principles which must underlie a free and prosperous society than the Foundation for Economic Education, which includes among its sponsors some of the same business organizations represented in the National Highway Users Conference. The Foundation has recently published a monograph entitled "Liberty-a Path to Its Recovery" by F. A. Harper. Mr. Harper discerns as the central principle of economic liberty "the right of a person to the product of his own labor," which implies the right to expend that product in whatever way he sees fit-that is, not having it taxed away from him for services that he would not voluntarily purchase. The author reminds us that "government is, by definition, design and intent, an agency engaged in force," and that any coercive power must be "viewed with suspicion." Decision of economic questions by majority vote, instead of in the market place, is simply a resort to the principle that "might makes right."

#### "Successful Parasitism"

Mr. Harper goes on to say, in effect, that forcing people to pay for economic services through taxation, whether they desire or use these services or not, is equivalent to destroying the "capitalist system." The government "becomes a grab-bag and one citizen justifies his becoming a parasite by observing that others are doing it. . . . The cardinal principle of successful parasitism is that the number of parasites must be kept low."

This paper suggests that the policy of financing long-haul highway facilities, advocated by the National Highway Users Conference (and which is in substance, the policy of highway finance in actual effect in this country) violates Mr. Harper's "cardinal principle of successful parasitism"—in that this policy is making it all but impossible for the railroad industry to continue to finance its essential service to the nation from voluntary private investment, based upon the industry's ability to collect compensatory charges from its customers.

It would be ironic in the extreme if America should lose its economic and political liberty largely because of the grasping myopia of the same group of men who are justly recognized as typifying the highest development of its industrial genius. History has, however, a way of playing such tricks.

#### **COST OF THE 40-HOUR WEEK**

Whatever adjustments are made in the maintenance-of-way departments of the railroads when the five-day week is put into effect, there is certain to be some additional cost. This outcome is inescapable unless there is resort to ruthless retrenchment, in which event it goes without saying that railroad property and service will suffer serious injury, in the long run. Such an expedient would prove ultimately to be very costly, although some bookkeeping "savings" might appear at first.

ic

ts

If the railroads, unlike government agencies, did not have to make ends meet, the simplest solution to the five-day-week problem, so far as it applies to the maintenance forces, would be merely to hire the additional men required to make up for the 20-per cent loss in man-hours, brushing off the additional cost as a matter for somebody else to worry about. Except possibly on a few of the more fortunate lines such a course is out of the question; on most roads it will be necessary to adopt measures to soften the the impact, financially speaking, of the five-day week.

A common feature of most of the measures open to the railroads in dealing with this problem is that they will cost money; an equally common characteristic is that they will be much less costly than the alternatives. For example, the purchase of additional power machines and tools, where they are needed for full mechanization, would be much more economical than hiring men to do work by hand that could be done more efficiently by the machines. The cost of putting additional supervisors or roadmasters on the pay rolls, where a need for them is indicated, would be more than offset by increased output on the part of the existing force, reducing or eliminating the need for hiring more workmen. The carrying charges for expenditures made to get stronger track or a more stable roadbed would be relatively light in comparison with the cost of the labor required to maintain an inadequate structure on a roadbed afflicted

Thus, if railroad managements desire to obtain the most economical solution to the problem of the 40-hr. week, they are going to have to reconcile themselves to the necessity of spending money to get it. Further, if they desire to have the benefits of these cost-saving measures from the date the shorter work week goes into effect, prompt decisions will be necessary. One chief engineer, requesting the authority to adopt a number of measures calculated to reduce costs under the 40-hr. week, implied that his superiors should guard against the "natural tendency" to delay action, waiting to see if the mat-

ter would "adjust itself after we go to the five-day week."

This matter unfortunately is *not* going to "adjust itself." The only sound policy in the circumstances is one based on careful advance planning and a willingness to make reasonable expenditures where they are justified in the interest of long-range economy.

#### JOHN M. HALL

The retirement of John M. Hall from the Bureau of Locomotive Inspection of the Interstate Commerce Commission takes from active service a man who has earned the respect, confidence and friendship of the railroad industry. Evidence of the esteem in which he is held, if any is needed, was given by more than 500 of his friends who gathered at a testimonial dinner at Baltimore, Md., on June 2 to honor John Hall for the services he has rendered to the railroads as a friend.

Promotion of the safe handling of potentially dangerous existent machines is a legitimate regulatory activity - entirely different from prescriptive powers over the course of potential technological development, which has been the goal of more recent legislative excursions into railroad safety. Mr. Hall has exercised these functions wisely. A railroad man for 50 years, he has been with the Bureau of Locomotive Inspection since 1911, the year the Locomotive Boiler Inspection Act was passed. The achievements of that bureau in promoting the safety of the employees and the public are testimony to the effectiveness of the work of John Hall as a district inspector and later as chief inspector and director of the bureau, and to his associates. Although no records are available for the year prior to the passage of the act, the first annual report in 1912 showed that 91 persons were killed and 1,005 were injured in accidents involving locomotive boilers. Last year the records show that 15 persons were killed and 361 were injured. John Hall believed that "safety and economy are inseparable twins" and that the "interests of the bureau and the railroads are mutual in this respect because the ends sought by each are similar and can be obtained only through exactly the same means—thorough inspections and timely and proper repairs."

The fairness with which Mr. Hall dealt with his judicial duties, his friendliness, and his interest in the railroads and their problems which won for him the confidence and cooperation of railroad men everywhere are an outstanding example of leadership. Railroad men can be sure, however, that John Hall would forego any personal acclaim and feel happier if the railroads would achieve a perfect safety record. That was the goal he was trying to

reach.

Americans won't knowingly bury their "talents" of self-reliance and private initiative in the sterile ground of socialism, but they will be bamboozled into doing so if they fall for the age-old sucker bait of something for nothing!

—Ernest E. Norris, president, Southern.



### B. & O. PUTS NEW "COLUMBIAN"

Two eight-car trains, built by Pullman-Standard, bring new luxury to Chicago-Washington overnight coach travel

The Baltimore & Ohio has recently placed in service two new eight-car streamline trains, built by the Pullman-Standard Car Manufacturing Company, as new equipment for the "Columbian," that road's de luxe overnight coach train operating since January, 1942, on a fast schedule between Chicago and Washington, D. C. All seats on the new train are reserved and all extra facilities such as the Strata-Dome, lounge sections, observation room and coffee shop are available to all passengers throughout the trip at no extra cost.

The consist of each eight-car train will normally include one coffee shop-lounge car, two 56-seat coaches, one Strata-Dome car, one 38-seat diner, two more 56-seat coaches and one tavern-observation-lounge car with cocktail bar. Motive power for each train will consist of an Electro-Motive two-unit, 4,000-hp. Diesel-electric locomotive.

The 85-ft. cars embody Pullman-Standard welded girder-type construction with plain flat sides. The car framing of low alloy high-tensile steel conforms to the latest U. S. Railway Post Office specifications and Association of American Railroads recommended practice.

The average car weights and seating capacities are given in an accompanying table. Car weight ranges from 127,900 lb. for one of the coaches to 153,400 lb. for the Strata-Dome car, each of these figures including 39,-

800 lb. for a pair of trucks. The weight of the eight-car train is 1,066,600 lb. without locomotive and it has a total of 266 revenue seats, 136 non-revenue lounge seats, and crew quarters for 14.

#### **Exterior Color Scheme**

All car exteriors are finished in B. & O. standard blue and gray colors with synthetic gold striping and lettering, the trucks being painted aluminum. Vestibules have stainless steel tread plates on the floors and plain unpainted stainless steel walls up to the height of the trap doors when open. Above this point the exterior body blue extends up to the ceiling which is painted exterior body gray.

On the exterior of the coffee-shop-lounge car, at the baggage end, a train name plate is applied bearing the words "The Columbian." The railroad insignia or medallion displaying the capitol dome and letters "B. & O." is also featured on plates of polished brass on a blue background.

At the rear end of observation-lounge car, an illuminated train sign is applied to the rounded rear-end door exhibiting the train name, "The Columbian," in white lettering on a dark blue background.

Comfort, lighting, color and utility of space character-



Comfort and eye appeal make the 56-seat coaches distinctive (left)

(Below)—Details of the Strata-Dome interior arrangement

### IN SERVICE

ize the new "Columbian" Strata-Dome coach, which is the first to be used in regular service on an eastern railroad.

#### Strata-Dome Coach

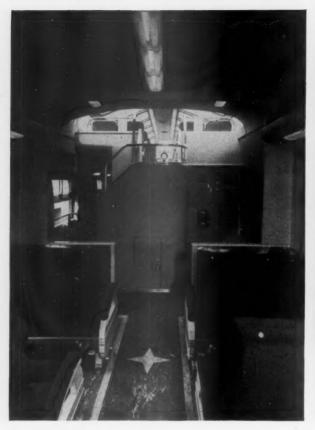
At approximately the center of the car a portion of the roof has been raised 1 ft. 9 in. above the normal roof height of 13 ft. 6 in. to provide for the Strata-Dome. This portion of the roof is almost entirely glazed on sides, tops and ends so that a passenger seated in this compartment can view scenery in all directions with no obstruction from other trains. For the length of the Strata-Dome compartment, the car has three floor levels, the upper level being the floor of the Strata-Dome. The lower level is depressed into the underframe to provide sufficient head room for two open lounge compartments. The aisle adjacent to the compartments is at approximately car floor level and the Strata-Dome is reached from this level by a stairway.

In the Strata-Dome, 12 coach seats have been provided on each side of the center aisle. The seats are of a special design, with low backs for better visibility.

The total seating capacity of the Strata-Dome coach is 83. In addition to 24 seats in the Strata-Dome, there are 18 in the forward section; 24 in the rear section; and space for 17 in the depressed lower level beneath the dome. The sunken lower section has two semi-private compartments, one of which seats 11 and the other 6.

The Strata-Dome car has a color combination of blue







and apricot in the lower-level compartments, while in the dome section a cool green treatment has been used to good advantage. Green marbleized rubber flooring is used. The aisle flooring has an inlay of the B. & O. insignia with color accent lines of bright red. The special low seats in the Strata-Dome are upholstered with bluegreen fabric.

The dome framework is of high-strength steel, and the Thermopane windows are made of tempered glass and high-strength plastics. In tests, these windows have withstood hurled objects as well as or better than the steel plates of the train roof.

Glare is substantially reduced by the combination of the heat-absorbing plate glass of the Strata-Dome's outboard sheet, which is somewhat darker than regular plate glass, and by the special glare-reducing, extra tough plastic of the laminated safety glass.

#### Average Car Weight and Seating Capacities

Type of Car	Average weight lb.*	Revenue	Non- Revenue seats	Crew quarters
Coffee shop-lounge	131,700		16	13
Coaches (four, 56-seat)	127,900	224	-	-
Strata-Dome	153,400	-	-	-
Dome section		-	24	Sec. and
Front and rear sections	-	42	-	-
Lower level sections		_	17	Wester
Diner	139,500	-	38	-
Tavern-observation-lounge	130,400	-	_	1
Tavern section	0.000	-	24	-
Observation-lounge	_	-	17	- 1
Total per train	1,066,600	266	136	14

<sup>\*</sup>Includes truck weight of 39,800 lb. per car set.

The outboard glass contains a special ingredient which absorbs a considerable percentage of the infra-red or heat-carrying rays of the sun, reradiating the heat of the sun outward, thus assisting in maintaining comfortable temperatures within the car.

#### **Diagonal Seating in Diner**

One of the most dramatic cars on the new "Columbian" is the diner. The special feature of this car is a postwar dining arrangement developed by Pullman-Standard in which tables and seats are placed diagonally.

Set with one corner facing into wall alcoves, instead of parallel to the wall as in the conventional dining car, the tables are arranged so that each patron is assured one side to himself. In addition, patrons can pursue conversation on a face-to-face basis as they would in their own dining rooms. This arrangement also allows waiters to serve from between tables without reaching in front of one patron to serve another.

The dining car has a capacity to seat 38 persons, 20 at four-seat tables and 18 at two-seat tables. Attached to the walls of the car instead of the floor, all tables in the dining car are vibrationless and allow for maximum foot space.

Both the wall seats and the pull-up chairs in the diner are upholstered with blue super needle-point fabric. The chairs are of aluminum construction with copper-bronze finish. This same finish has been applied to all metal moldings, metal furniture bases, entrance door casings and headers. A modern ornamental de-

Facing page, left—Stairway leading to the Strata-Dome from lower level

Facing page, right—Diagonal seating and decorative treatment in the diner

Right-Looking past the bar to the observation-lounge

### PARTIAL LIST OF MATERIALS AND EQUIPMENT ON THE NEW B. $\phi$ O. "COLUMBIAN" TRAINS

TrucksGeneral Steel Castings Corp., Granite City,
Center-plate, equalizer coil- spring, side-bearing
and journal-box padsFabreeka Products Co., Boston, Mass. Roller bearings
Side bearings; truck clasp brakes
Shock absorbers
ding, Pa.  Draft gearWaugh Equipment Co., New York Center-plate locking pinsW. H. Miner, Inc., Chicago
Hand brakes
City, Mo.  Window sash
Thermopane windows in domeLibbey-Owers-Ford Glass Co., Toledo, Ohio Windshield wiper, observation
end doorTrico Products Corp., Buffalo, N. Y. Window capping and table topsFormica Insulation Co., Cincinnati, Ohio
Air-conditioning systemFrigidaire Division, General Motors Corp., Dayton, Ohio Air filters
Farr Company, Los Angeles, Calif.  Air filters, odor absorbing W. B. Connor Engineering Corp., New York
Heating system; steam end valves and couplers; water
heating jackets
Generators
Gould Storage Battery Corp., Trenton, N. J. K. W. Battery Co., Chicago Phileo Corp., Philadelphia, Pa.
Charging receptacles; train- line connectorsPyle-National Co., Chicago
Electric metersWeston Electrical Instrument Corp., Newark, N. J.
Electric fans:  ExhaustSafety Car Heating & Lighting Co., New York
Intake blower
Lighting fixturesLuminator, Inc., Chicago Safety Car Heating & Lighting Co., New York
Hand railings
Seats: Coach
car
Seat covering
Writing desksS. Karpen & Bros., Chicago
Writing desks
Metal covered plywood
Met-L-Wood Corp., Chicago Wood veneerUnited States Plywood Corp., New York



Leather wall covering	anning Co., Cleveland, Ohio ont de Nemours & Co., Wilming-
ton, Del.	
	liams Co., Cleveland, Ohio
MuralsKaufman &	Fabry Co., Chicago
Venetian blindsAjax Conso	lidated Co., Chicago
Window curtains:	
FabricGoodall Fal	brics, Inc., New York
BackingPantasote C	o., New York
Draperies:	
FacingGoodall Fal	orics, Inc., New York
Orinoko Mi	lls, New York
BackingLussky, Wh	ite & Coolidge, Inc., Chicago
Rubber tiling	ubber Co., Dayton, Ohio
Tile floor in toilet rooms Sparta Cera	mic Co., East Sparta, Chio
Interior locks	Co., New Britain, Conn.
ford Con	n .
End door locks	ufacturing Co., Dayton, Ohio
End door enginesNational Pa	eumatic Co., Rahway, N. J.
Kitchen range, steamtable and coffee urn	
Garbage disposal unit	ctric Co., Schenectady, N. Y.
Mechanical refrigeration Frigidaire I Dayton, O	lhio
Bars Mandel Bro	s., Chicago
Water coolersCordley &	Hayes, New York
Drinking-cup dispensers Dixie Cup	Co., Easton, Pa.
Smoking stands Precision M	etal Workers, Chicago
Ash receptaclesAdams & W	estlake Co., Elkhart, Ind.
system	
Telephone Automatic I	Electric Co., Chicago
AnnunciatorsGraybar Ele	ctric Co., New York
Instrument panel in dome of	
Strata-Dome cars:	
ClockSeth Thoma	as Clocks Division of General rument Corp., Thomaston, Conn.
BarometerTaylor Inst	rument Companies, Rochester,
AltimeterKollsman In	W W
Speedometer Electric Tac	hometer Corn. Philadelphia Pa.
Hoppers	Chicago
Duner Co.,	
Toilet room dispensers Griffith-Hope	Co. West Allia Wia
	Co., Chester, Pa.
West Disinf	ecting Co. Long Island City,
Fire extinguishers	ufacturing Ch. Newark N I
THE VALUE OF THE PROPERTY OF THE PARTY OF TH	



The space under the Strata-Dome is taken up by two compartments

Interior of the baggage section



sign has been applied to the header over the entrance door.

To link the dining car with the territory served, color and design experts have selected four full-colored murals for the bulkheads depicting scenic points of interest along the railroad right-of-way. At one end of the diner are murals of the Lincoln Memorial and reflecting basin and the Chicago skyline. At the opposite end are murals of the Cumberland Narrows and Harpers Ferry.

The frieze panel above the windows and above the murals is covered with brown leather having diagonal diamond patterns in gold-tooled lines. The floor of the main compartment of the diner is carpeted in the same brown color theme.

#### **Reclining-Seat Coaches**

Each of the reclining-seat coaches has 56 easily adjusted seats where passengers may rest or sleep comfortably, by day or night. These Heywood-Wakefield Sleepy Hollow seats are scientifically designed for full body comfort, spaced to give ample leg room, and have a wide range of adjustment for back and footrest positions. A button adjusts the back of the seat to nine different positions and the footrest is adjustable to four positions.

Large and attractive lounges are an outstanding feature of the coaches. A spacious women's lounge is located at one end of each car, and an equally large men's room at the other. There is an enclosed compartment for heavy luggage in one end of each coach and wide overhead racks afford ample and convenient storage space for small bags and wearing apparel.

Extra large windows give every passenger a full outside view, and as all cars are air-conditioned complete comfort is assured in any season. Lighting is adjustable for individual desires, with fixtures conveniently and scientifically placed in the overhead luggage racks. The coaches, like all cars on the train, have electropneumatic operated end doors, which open at a touch of the hand.

Interior color schemes in the coaches are apricot and blue, alternated in the train consist. Radio reception is provided in each of the cars, with six speakers recessed in the ceiling. Radio speakers also are located in the lounges.

#### **Observation-Lounge Car**

The observation-lounge car, decorated in red, blue and gold color combinations, has a tavern section seating 24 passengers on sofas and lounge chairs. In the center of this section is a decorated semi-circular bar with a quilted leather front. The gold color scheme of the tavern is further emphasized by an appropriate gold monotone mural on the forward bulkhead, and gold mirrors with etched design of wheat at the back of the bar.

In the observation-lounge section, which seats 17 passengers and has it own writing desk, sofas and lounge chairs are red and blue with blue carpet balanced effectively by gold draperies. Gum flexwood of natural color, with a highly figured wood grain, is applied on the entire frieze panel. Wainscoting is in red leather.

At the forward end of the observation car a completely-equipped room is provided for the stewardess.

Each car in the new "Columbian" is equipped for radio reception. Conveniently and scientifically placed speakers bring entertainment to passengers without blare or distortion. Sixteen channel radio tuners are located in the coffee shop-lounge car, the observation lounge, and the Strata-Dome car, offering a wide selection of programs over the route of the trains.

#### **Radio Facilities**

ce

01

ed

of

nd

 $^{\mathrm{1d}}$ 

p-

nd

1e

al 1e

e

d

11

e

i-

r

To facilitate train announcements, the radio system is linked with a public address hook-up which may be controlled from the conductor's desk in the coffee shop-lounge car, the steward's desk in the dining car, or from the stewardess' room in the observation-lounge section.

Each coach carries six speakers in the ceiling with additional ones in the men's and women's lounges. Four speakers are placed in the tavern-lounge section, three in the observation lounge, and one in the stewardess' room. The Strata-Dome car has two speakers in the forward coach section and three in the rear compartment section, one in the lower level section, and one in the Strata-Dome proper. Five speakers are located in the dining car, and a wire recorder is available for the playing of uninterrupted dinner music.

Inter-car communication also is provided by a dial telephone system, with stations in the locomotive cab, baggage room, conductor's desk and storage locker in the observation car. Local phone calls may be made from a telephone in the observation car when the train is at a terminal.

#### Strata-Dome Instrument Panel

The Strata-Dome is equipped with an instrument panel at the forward end designed to interest the most gadget-minded passenger. Not only is there a clock, but passengers may take the speed of the train from a speedometer, the altitude at which the train is traveling from an altimeter, and may forecast the weather from a barometer.

Although clocks and speedometers have made their

appearance on other de luxe trains in the past, it is believed this is the first time an altimeter and barometer have been included in an instrument panel for the information of the public.

#### Air-Conditioning, Heating

Air conditioning equipment on the train is of the latest Frigidaire electro-mechanical type with thermostatic control. The air-cooled condenser and compressor utilize an auxiliary water-spray for operation under high head-pressure conditions. The evaporator is floor mounted, sectionalized horizontally, and located in a locker at the end of the car. The electric control panels are in a separate locker.

The cooling capacity of the equipment is eight tons on each car except the Strata-Dome, which has a 10-ton unit using one compressor and two condensers in series. Six tons of this capacity is required in the lower part of the Strata-Dome car and four tons in the dome section.

Vapor steam heating equipment in each car includes modern fin-type radiation units for floor heat with zone control, themostatically governed. Overhead heating is also supplied to operate in conjunction with the airconditioning system.

#### Trucks, Air Brakes

The trucks are of General Castings four-wheel, all coil-spring type, with single equalizer bars and 133%-in. pedestal openings to accommodate Hyatt roller bearing journal boxes. The truck frames, bolsters and spring planks are made of alloy steel. Simplex unit-cylinder clasp brakes are installed, also Monroe vertical hydraulic shock absorbers and Drews evertight side bearings.

Air brake equipment is of the Westinghouse H.S.C. full electric type with speed governor control to give a graduated percentage of braking effort for a maximum of 250 per cent (with 100 lb. cylinder pressure) down to a smooth stop. Four decelostats on each car automatically release the brakes momentarily on any wheels which might have a tendency to slide and set the brakes again to the proper ratio with other brakes when the wheels begin to roll properly.



The Seaboard Air Line recently received the first part of a shipment of 400 high-side gondolas being built at the Berwick, Pa., plant of American Car & Foundry Co.

# First-Quarter Capital Outlays Totaled \$342.6 Million

Were 26.5 per cent above those of same 1948 period, I.C.C. bureau reports; estimates indicate that expenditures during first nine months will be up 18.5 per cent

Gross capital expenditures made by the 132 Class I line-haul railroads during this year's first quarter totaled 342.6 million, an increase of \$71.8 million or 26.5 per cent above the \$270.8 million spent during last year's first three months, according to figures presented by the Bureau of Transport Economics and Statistics of the Interstate Commerce Commission in the latest issue of its "Monthly Comment." The data included estimates of second and third quarter expenditures submitted by 128 of the 132 roads, and these estimates indicated that expenditures during this year's first nine months will total \$1,033.9 million, an increase of 18.5 per cent above actual expenditures during the same 1948 period.

The four roads which failed to submit estimates for this year's second and third quarters made expenditures totaling \$10.3 million during the first quarter. Of the first-quarter total (\$342.6 million), \$271.7 million, or 79.3 per cent, was spent for equipment, while \$70.9 million, or 20.7 per cent was spent for road. The first-quarter expenditures of 1948 were divided 76.3 per cent for equipment and 23.7 per cent for road. Other comparisons are set out in the accompanying table.

#### Loss and Damage Payments

Another article in the "Comment" presented and discussed data on payments for "loss and damage" to freight, thus emphasizing how such payments have increased both absolutely and relatively since 1939. The charge to operating expenses for loss and damage payments in 1948 was \$129.5 million, a new high which exceeded by \$7.9 million the previous peak reached in 1947. The 1948 figure was more than double that of 1944 (\$63.8 million), "the war year in which freight traffic reached an all-time peak," the bureau noted. It went on to point out that 1948 traffic, as measured by ton-miles, was 13.4 per cent below that of 1944. Moreover, the 6.5 per cent increase in loss and damage payments in 1948 as compared with 1947 came despite a drop of 2.5 per cent in freight traffic.

In 1939, the loss and damage payments totaled \$20.6 million, and they increased sharply each year after 1941 until they reached the 1948 peak, which was 526 per cent above the 1939 figure, ton-miles having increased, meanwhile, only 91 per cent. Loss and damage payments per million ton-miles amounted to \$203 in 1948—227 per cent above 1939's \$62.

In what it called an undertaking "roughly to

adjust" the loss and damage figures for increases in material and labor costs, the bureau "deflated" the 1944, 1947, and 1948 charges to a 1939 base by use of the wholesale price index of the Bureau of Labor Statistics. "Even on this basis, however," it noted, "the deflated amount of loss and damage in 1948 was 193 per cent above that of 1939 or more than twice the increase of 91 per cent in ton-miles. Per million ton-miles, the freight loss and damage on the basis of 1939 prices increased from \$62 in 1939 to \$95 in 1948 or 53 per cent."

#### **Motive Power Shifts**

The shift in railway motive power was discussed in another article which set up tabulations based on the March reports (Form OS-F) of the 1944-49 period, made by Class I roads, including switching and terminal companies. The tabulations pointed up the decline in the number of steam locomotives in service and the rise in the number of Diesel-electrics. At the end of last March, there were in service 31,939 steam locomotives, a drop of 7,963 or 20 per cent below the March 31, 1944 total of 39,902. Meanwhile, the number of Diesel-electrics in service increased by 4,444 or 207 per cent-from 2,150 to 6,594. The total number of all locomotives in service decreased by 3,591 or 8.4 per cent. In March of this year, Dieselelectrics represented 16.8 per cent of the total locomotives in service, as compared with 5 per cent in March, 1944.

#### Actual and Estimated Gross Capital Expenditures Class I Railways

Period	Number of roads	Road Thou- sands	Equipment Thou- sands	Tetal Thou- sands	Per cen Road	Equip- ment
Actual 1948:						
1st quarter	132	\$64,260	\$206,539	\$270,799	23.7	76.3
1st nine months Actual 1949:	131	240,870	631,309	872,179	27.6	72.4
1st quarter	132	70,875	271,686	342,561	20.7	79.3
Estimated 1949:		,	-1-,000	012,002		
2nd quarter	*128	81,978	299,896	381,874	21.5	78.5
3rd quarter	*128	89,208	220,227	309,435	28.8	71.2
Fotal:  1st nine months 1949, actual and estimated	_	242,061	791,809	1,033,870	23.4	76.6
Per cent increase: 1st quarter 1949						
over 1948 1st nine months	_	10.3	31.5	26.5	_	_
1949 over 1948	-	0.5	25.4	18.5	_	_

A breakdown by classes of service showed that the number of steam locomotives in each class declined steadily since 1944, except for a slight increase in passenger service in March, 1946, while the number of Diesel-electrics rose sharply from year to year. In March of this year, Diesel-electrics represented 30 per cent of the total number of locomotives in yard service as compared with 12.9 per cent in March, 1944. The corresponding figures for road freight service were 8.8 per cent and 0.9 per cent, and for road passenger service, 14.8 per cent and 2.6 per cent. Most of the Diesel-electrics in service in March, 1944 (82.8 per cent) were in yard service, but this year's March reports showed this distribution: Yard, 59.8 per cent; road freight service, 27.4 per cent; road passenger service, 12.8 per cent.

#### **Four Months Traffic and Earnings**

in

he se

or

93

Comparing traffic and earnings of this year's first four months with those of the same 1948 period, the bureau calculated that the 1949 period's combined volume of freight and passenger business, as measured in "traffic units" (revenue ton-miles plus twice revenue passenger-miles) was 9.6 below that of 1948's first four months. It was pointed out that in both periods the traffic was adversely affected by severe weather conditions and "stoppages" of mining in the coal fields.

Operating revenues for this year's first four months were only 2.7 per cent below those of the same 1948 period. The fact that this decline was substantially less than the drop in traffic was "largely due" to the higher rates in effect this year, the bureau said. Meanwhile, operating expenses were down 1.7 per cent, so the net railway operating income of the 1949 period (\$193.2 million) was, as the bureau put it, "only 1.3 per cent below that of 1948." For this year's first two months, the net railway operating income was off 23.1 per cent, but the March and April figures were 7.7 per cent and 22 per cent, respectively, bigger than those of the same 1948 months.

Other articles in the "Comment" reported on the financial results of Railway Express Agency operations in this year's first quarter, and on the 1948 earnings of the large freight forwarders and the Class I intercity motor truck operators. "Charges for transportation" made by R. E. A. during this year's first quarter amounted to \$82.3 million as compared with \$111.2 million in the same period in 1948, or a decrease of 26 per cent, "despite substantial percentage increases in express rates authorized by this commission which were in effect in the 1949 period," the bureau said. After paying its operating expenses and taxes, R. E. A. turned over to the railroads and other carriers "express privilege" payments totaling \$18 million in this year's first quarter. That was a drop of 46.5 per cent below the \$33.6 million turned over in 1948's first quarter.

#### Forwarders and Truckers in 1948

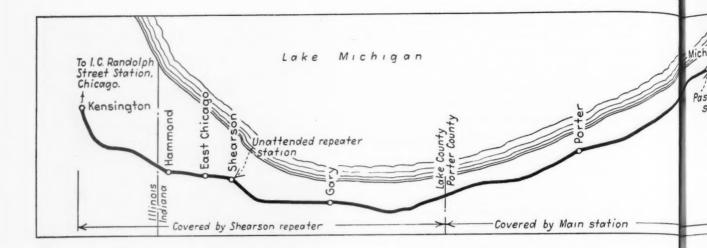
The reports on 1948 earnings of the forwarders and the intercity truckers were based on summaries of quarterly returns made by those carriers. As to the forwarders, they showed that the 56 large companies



DEADHEAD LIVESTOCK—This moose boarded an Alaska Railroad flat car when it was snowed in on a siding. After a rotary plow had cleared the siding and a switch engine moved the cars, the moose remained aboard—without billing

(those reporting revenues of \$100,000 or more per year) had a composite 1948 net income of \$4.3 million, a decrease of 9.7 per cent below the \$4.7 million reported for 1947. The forwarders' gross was up 10.5 per cent, from \$238.9 million to \$264.1 million, but the amounts they paid to carriers transporting their traffic was up nearly as much, i. e., 10.2 per cent. These increases, the bureau pointed out, "largely reflected the increases in freight rates and charges authorized by this commission." The forwarders handled 4.1 million tons of freight in 1948, a drop of 9.7 per cent below the 4.5 million tons handled in 1947. Their 1948 payments for transportation purchased totaled \$202.2 million, of which the railroads received \$146 million.

The summarized quarterly returns from Class I intercity motor carriers covered the operations of 1,605 truckers. Their 1948 gross totaled \$1.6 billion, an increase of 29.1 per cent above 1947's \$1.2 billion. Their net income was \$73.5 million, an increase of 81.1 per cent above the \$40.6 million reported for 1947. They carried last year 156.5 million tons of freight, an increase of 14.6 per cent above 1947's volume of 136.5 million tons. This traffic increase "may be compared with a decrease of 1.3 per cent in the number of tons of revenue freight carried by Class I steam railways between the same periods, the bureau suggested. It added that the 1948 tonnage handled by the truckers was 5.5 per cent of that reported by Class I roads, as compared with 4.7 per cent in 1947.



### Radio Freed from Wire-Line Linkage

Installation on 77 mi. of the electrified South Shore Line is the first of its type to be authorized by the Federal Communications Commission

To secure two-way communication between its dispatcher and freight and passenger trains, maintenance trucks and supervisors' automobiles, the Chicago South Shore & South Bend, an electrified railroad operating between Chicago and South Bend, Ind., 90 mi., has adopted a new space radio relay system on 77 mi. of road. The installation is the first of its type to be authorized by the Federal Communications Commission, the important feature being that remote radio repeater or relay stations, required to communicate with trains or vehicles beyond the horizon from the dispatcher's office, are controlled entirely by radio and independent of land wire lines usually employed for such operation.

From Randolph Street station, in Chicago, to Kensington, Ill., the South Shore operates over the Illinois Central. From Kensington to South Bend it has its own tracks. The rail distance between South Bend and Kensington is 77 mi. This is a very busy stretch, with 68 passenger trains daily between Chicago and Gary, and 39 between Chicago and South Bend. In addition, a large number of freight trains are operated daily, these trains being hauled by electric locomotives.

#### **Covers Entire Railroad**

Our line car, several motor vehicles, two passenger trains and two freight locomotives have been equipped with radio, and it is expected that the remainder of our freight locomotives will soon be equipped, and that the system will be expanded to cover all of our through passenger trains. The dispatcher at Michigan City, Ind., approximately halfway between Kensington and South Bend, may now communicate directly or via

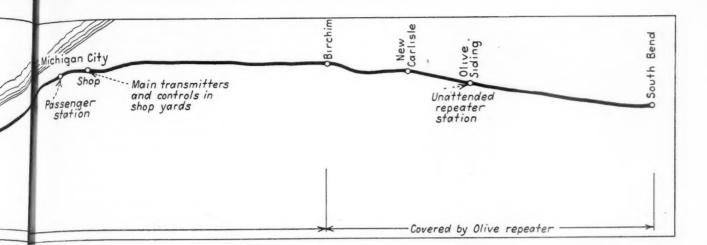
By P. J. CORPORON

Assistant Superintendent Way and Structures Chicago South Shore & South Bend Michigan City, Ind.

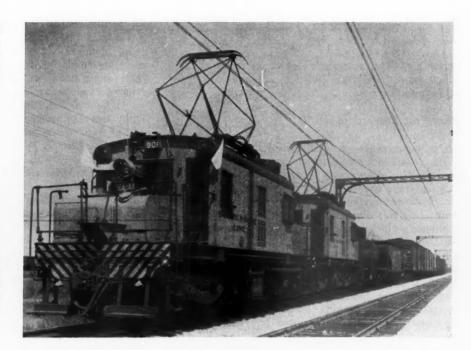
two radio repeater stations with any mobile units on trains or motor vehicles anywhere between Kensington and South Bend. Communication can be maintained with trains as far as the 53rd Street station on the Illinois Central, although it is not needed beyond the junction where our trains enter Illinois Central tracks.

In addition, crews of any of our mobile units can communicate with the crews of any other mobile unit when both are within the service range of either of the two repeater stations. When mobile units are close to Michigan City and out of the operating range of either of the two repeater stations, or if one mobile unit is in the service area of one repeater station and another is in the service area of the other repeater station, communication between these two mobile units may be manually relayed by the dispatcher at Michigan City.

Since our space radio communication system has been in operation, we have found that, for all practical purposes, we have 100-per cent coverage of our railroad. In many instances already radio communication has proved invaluable. In case of trouble we have been able to reach the crew of our line car while it is en route, to send it directly to a trouble spot; this eliminates even a moment's delay, and we are often able to catch up with trouble before it happens. Our supervisors, traveling in automobiles, and our maintenance crews traveling in trucks, can be reached



Simplified map of the South Shore Line between Kensington, III., and South Bend, Ind., showing locations of main and repeater radio stations and territories served thereby



Radio-equipped locomotive at the head of a westbound freight train at Wagner, Ind. Radio antenna is above the headlight and transmitter-receiver is to the right of it



Signal maintenance truck, with 30-watt radio at East Chicago, Ind. The author of this article—F. J. Corporon, assistant superintendent way and structures—is shown using equipment



Chief Dispatcher A. H. Kambs at Michigan City, Ind., using handset controlling one of the land stations

by the dispatcher along any part of our railroad. This added system flexibility gives us a new dimension of operating efficiency.

#### Planning Started in 1946

Our planning for radio dates back to 1946, when C. H. Jones, vice-president and general manager, saw the possible advantages of two-way radio communication in train operation and emergency maintenance. Our first investigation of the practicability of two-way train radio was discouraging, as we encountered many limitations which seemed to preclude a flexible system that would serve our purposes. The most feasible plan in our investigation was arrived at in collaboration with the Bendix Radio Division of the Bendix Aviation Corporation. More than a year elapsed before our radio communication system emerged from the preliminary planning to actual experimentation. Now our system is a reality and is saving time and money, with new ways being found every day to improve service to passengers and shippers.

Direct communication from the dispatcher's office at Michigan City with trains and maintenance vehicles requires coverage beyond limits of the horizon. In order to cover the entire railroad, it was necessary to use at least three land stations employing radio frequencies in the 152- to 162-megacycle band. The usual method of operation in such a case would be to tie in these three land stations by means of wayside telephone wires which, in itself, would have been a weakness of a space radio system. Also, we needed to be able to control the equipment from any desired point along this land line. This dependence on land lines for the control of these radio stations would subject the radio communication system to the same hazards in winter as existing telephone communication. Radio would be most useful at times when the overhead catenaries were disabled, and at such times the telephone lines too are usually out of com-

Our engineers, working with the manufacturer, devised a radio relay system to provide the desired communication range without depending upon land

telephone wires for the control of our radio stations. We envisioned a true space radio communication system to reach trains anywhere on our lines, with none of the faults of previous systems; we could cover our whole railroad with dependable static-free radio communication. Our answer was to install two automatic radio repeater stations, one to the east of Michigan City and one to the west. Radio communication from the central land station at Michigan City to trains within a 15- to 20-mi. radius of this point would be handled direct without the use of the repeater stations. Communication to mobile units beyond this distance would be through simultaneous retransmission over the two automatic repeater stations. In a like manner, signals from the mobile units to Michigan City would be relayed through the nearest repeater station, if originating more than 15 to 20 mi. from Michigan City.

#### **Communication Equipment**

At Michigan City two sets of land-station equipment are employed, one for direct contact with mobile units within the direct range of Michigan City, and the other for activating the two automatic repeater stations. Control facilities for both sets of land-station equipment are located in the dispatcher's office. One of the refinements of our new system is that only two radio channels in the 152- to 162-megacycle band are required-158.43 megacycles and 161.37 megacycles. The westward automatic repeater station is located at Shearson, Ind., just east of East Chicago, Ind., and the eastward automatic repeater station at Olive Siding, a few miles east of New Carlisle, Ind. The Shearson repeater station is approximately 30 mi. west of Michigan City and the Olive repeater station approximately 22 mi. east. Both are beyond line-of-sight distance from Michigan City.

Bendix communication units are used on trains and at both repeater stations, as well as in the main land station at Michigan City. These communication units consist of a frequency-modulated (FM) transmitter and receiver. The power output of these transmitters when used at our land stations and on our passenger trains is 50 to 60 watts, but on freight trains, using a different type of power supply, about 25 to 30 watts of power is radiated. Supervisory automobiles and some maintenance trucks are equipped with 30-watt Motorola mobile units.

Under one of the two antennas at each repeater station a Bendix communication unit is used as a receiver. At the other antenna site a similar unit is used as a transmitter. The units are identical and may be interchanged. The repeater stations receive signals from mobile units or the Michigan City land station on 158.43 megacycles and retransmit the receiver intelligence on 161.37 megacycles; thus the mobile units receive on the latter frequency.

In charge of our system planning is W. J. Mallon, superintendent of way and structures, assisted by the writer and R. B. Hendrickson, assistant engineer way and structures. The system was installed and is being maintained by F. A. Zerber, contract radio communication engineer, the major items of radio equipment having been furnished by the Bendix Radio Division of the Bendix Aviation Corporation.

### **New Objectives for Agricultural Agents**

By EDWARD J. LEENHOUTS

Manager, Stock Yards and Agricultural Development, New York Central

The primary reasons why a railroad maintains an agricultural department are:

 To create new agricultural tonnage for the railroad to haul;

 To increase the prosperity of rural communities which, in turn, is reflected in greater passenger business and more inbound freight tonnage;

To build up good will toward the railroad in rural communities, and

 To develop avenues through which railroad information can be passed to rural people.

#### Rural Good Will Essential

ne

mic an

ns be

is s-

i-

e-

The advent of the trucks has taken the driving motive out of the old-time objective, and the excellent work of the extension service has removed most of the need. But there has arisen a much more important objective than that of building up a few thousand tons of new freight; namely, that of saving the very life of our corporation.

The railroads must have the good will of rural people or they will cease to be. No one is in better position to build up this good will than the agricultural representative of the railroad. The best way to do this is to work with the established agencies in any and all programs which are recognized as tending to be of benefit to the rural people. Helping them solve their problems gives us an entree that cannot be matched. If it creates new tonnage, well and good. Let's try and get some of it! If it brings greater prosperity to the rural people, we are bound to get a small share of it. If it does not make these people more kindly disposed to our railroad, and more ready to help it with its problems, there is something wrong with our program. The big objective is good will-with it will come such traffic as can, within reason, be given to us, but with it we can build up that change in public policy which we must have if we are to survive.

The life of our industry is in the hands of the public. With rates and wages set by public bodies, most of our income and most of our outgo is determined by public policy. Schedules, services, investments — these are largely subject to the will of commissions subject to public control. Public policy, not railroad management, is the determining factor in whether our industry will prosper or go broke. Hence, the good will of the public becomes of paramount concern and railroad agricultural men have a wonderful opportunity to serve the industry most effectively in the rural field.

If we are to get a change in public policy which will permit the railroads to have adequate earnings, and to compete with other forms of transportation on

an equitable basis, it will be brought about by rural legislators who are, fundamentally, opposed to government ownership and inclined to look upon questions from a national welfare point of view. Their general philosophy is in line with ours, and they will be found in our corner if they can be made to understand our problems. The railroad man who brings about this understanding among the rural people is doing more for his railroad than if he gets a few extra thousand cars of business.

This I say categorically—unless we get a change in public policy, very few of our railroad corporations will escape bankruptcy and government ownership. Certainly no program of agricultural development, no matter how productive it might be from a potential traffic viewpoint, could have much of a bearing on the ultimate result unless it influenced public opinion favorably.

#### Playing for Big Stakes

With all this as a background, the New York Central's agricultural department is constantly on the lookout for opportunities to work with agricultural leaders and people in our territory on projects which are beneficial to them, because (1), generally, we will derive direct or indirect benefit, and (2) by helping them we establish the good will which we need for a fair consideration of our problems. In most cases, immediate and direct revenue is not involved, although we would welcome such projects if they were available. . . . We do keep ourselves identified with the "4-H Club" and "Future Farmer" programs in all our states with distinct N.Y.C. projects. . . . We work with leaders of farm organizations at every opportunity. . . . We are completely convinced that the small amount of money which our railroad spends on "agricultural development" is returning large dividends in the form of direct revenue. There have been years when the revenue from tours for 4-H Clubs and farmer groups, sponsored for their good will feature, was greater than the entire expense of that phase of our department. But our emphasis is on building up good will, and I believe the railroad gets more for each dollar invested in our program than any invested in its general public relations and advertising program.

If we fail to stem the tide running against the American railroads and against private enterprise in general, our railroads will go into bankruptcy and our nation into a sad form of socialism. Railroad agricultural development men are playing for big stakes—not for ourselves, but for the next generation.

From a paper delivered at the 40th annual meeting of the American Railway Development Association, Old Point Comfort, Va



### **Overhead Conveyor**

The Southern Pacific has recently completed the installation of a Link-Belt overhead truck-tow system at its Houston (Tex.) freight station. The conveyor system speeds operation, eliminates platform congestion, makes possible one-direction traffic flow, and reduces costs at the 160-car freighthouse built 22 years ago to serve a Houston which has since greatly expanded in size and industrial activity.

The overhead conveyor is used to transport freight from locations on the outbound platform to outbound cars; to handle transfer freight from inbound cars to outbound cars or highway trucks, and to relay inbound freight from the inbound tracks to the headhouse, for subsequent movement, by other means, to the street side of the inbound platform for city delivery.

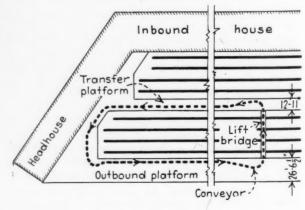
The new facility consists of a 2,030-ft. continuous rivetless chain operating on ball-bearing trolleys on a four-inch I-beam. Hooks are spaced at 15-ft. intervals for attaching four-wheel platform trailers. The conveyor speed is variable, from 60 ft. to 120 ft. per minute, for a capacity of 360 to 720 trailers an hour past a given point. As now set up, the chain makes a complete circuit every 19 min. It is powered by a 15-hp. electric motor.

Couplings between the trailers and the chain are made by a telescopic mast attached wagon-tongue fashion to the trailer. The mast is attached to the traveling chain by a crab-claw hook at the upper end. The conveyor system has a capacity of 135 trailers with an average

Above—Freight arriving on the outbound platform is loaded on four-wheel trailers which are attached to the overhead conveyor and propelled to outbound cars. Chalk numbers designate car "spots"

Left—A stevedore detaches a trailer as it passes the car into which the freight is to be loaded. Light pressure on the mast handle will disengage the trailer from the conveyor chain

Below—Houston freight station is E-shaped. The conveyor circuit is 2,030 ft. long



### **Expedites Freighthouse Operations**

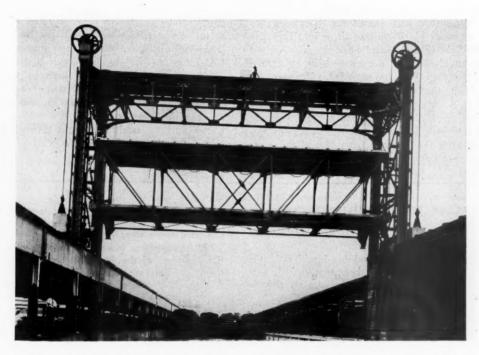
10**V** 

in-

on, ces to in

ght nd to nd for eet us als oner ur a

in or ge Truck-tow speeds loading and minimizes congestion with unidirection flow at Southern Pacific's Houston freight station



A new transfer bridge between the outer end of the outbound platform and the transfer platform forms a link in the conveyor circuit

load of 1,500 lb. each, or a total average load of 202,-500 lb. There are 300 four-wheel trailers in use.

The outbound, transfer and inbound platforms at the S. P.'s Houston freight station are in the form of an "E," with the transfer platform in the center. There are four outbound tracks, with a total capacity of 80 cars, between the outbound and transfer platforms, and four inbound tracks of the same total capacity are located between the transfer and inbound platforms. The outbound platform is  $26\frac{1}{2}$  ft. wide and 1,140 ft. long. The island—or transfer—platform is 12 ft. 11 in. in width and 2,000 ft. in length. The inbound house is 43 ft. 10 in. wide and approximately 2,000 ft. long. All of the platforms are of concrete slab construction, and are at car-floor level.

#### **One-Direction Operation**

Prior to installation of the Link-Belt conveyor, freight was handled principally on trailers pulled by gasoline-motored tractors, supplemented by hand trucking. One of the problems was congestion, attributable in part to the fact that traffic moved in two directions on each platform. A maximum of 10 trailers was permitted

for each tractor-trailer train, and the necessity of keeping an open path for two lines of traffic reduced the amount of platform space which could be used for the storage and sorting of freight.

Under the new plan, only a single lane is necessary. All traffic moves counter-clockwise, traveling along the outbound platform to the outer end, crossing to the transfer platform over a lift bridge—1,010 ft. from the headhouse—along the transfer platform to the headhouse, and around the platform adjacent to the headhouse, back to the outbound platform.

The lift bridge span is 48 ft. 11½ in. long and 12 ft. wide, with a concrete slab deck. When open, the span clears the top of rail by 22½ ft. The bridge—powered by a 45-hp. electric motor—is raised from 6 p.m. to 6 a.m. for the movement of railroad cars.

When the bridge is to be raised at the close of the business day, the conveyor is stopped and pins are inserted through links in the chain on each side of the span. The I-beam is then separated at both ends, slack is taken out of the chain by a 1½-ton capacity Coffin hoist, and the link is removed to permit rolling the chain back both ways from the span. The entire operation of connecting or disconnecting the chain takes

only 10 min., and the actual raising or lowering of the bridge 45 sec.

Safety switches prevent lifting the bridge until the chain is disconnected, and the track switch leading into the freight station is protected by an additional lock, the key to which is kept in a box at the bridge and is obtainable only when the bridge is raised, since the box is covered by the bridge when it is down.

The moderate rate of speed at which the conveyor chain travels makes it possible for employees to engage trailers to it, or disengage them from it, with safety and ease. Freight loaded on the trailers is marked with the spot number and stevedores disengage the trailers at the proper place, pulling them into the cars where the load is removed and stowed. The empty trailers are reattached to the conveyor chain for return to points where they will be reloaded. Trailers are disengaged from the conveyor chain manually, by lightly striking a lever on the mast, which opens the claws. With this method of attaching the telescopic masts to the conveyor belt it is not necessary to take slack to disengage the trailers from the chain, thus making it a one-man operation.

The overhead conveyor system keeps freight moving continuously, whereas, under the old system, it was loaded on trailers and would remain on the platform as long as 30 to 40 min. before tractors could get back to pick it up. The result was overcrowding of the platform with a consequent slowing down of operation. Freight towed by the conveyor moves currently and platforms are kept clear for the handling of freight as fast as it arrives on street trucks.

The conveyor enables the station forces to load all of the freight out every day, whereas—before the installation was made—it frequently happened that congestion late in the day necessitated the holdover of some merchandise which could not be handled to and loaded into cars in time for their scheduled pull-out.

Damage to freight has been noticeably reduced. Trailers are not loaded as high as was the former practice, and they are towed at a slower, uniform rate of speed, lessening the likelihood of damage by collision or upset in transfer.

The cost of handling freight through the station is reported to be substantially reduced as a result of the new system of operation.

#### MAIL RATES-A SUBSIDY IN REVERSE

By David Lawrence

There are plenty of instances of subsidy furnished by the government to private business but there apparently is only one conspicuous case in which a private business actually subsidizes the government.

This is what the railroads are doing in carrying the mails. So they are asking the Interstate Commerce Commission for an increase in mail pay. This has led to over-all study of the whole question of transportation policy with respect to the mails.

Now the Senate has just adopted a resolution authorizing an inquiry designed to find out how an equitable solution of the problem can be found, with particular reference to the fact that there are three different rates paid by the government for carrying mail.

For the government subsidizes the airlines and pays out more than 80 per cent of the revenue from airmail stamps to pay the airline companies. The Post Office Department, however, collects \$668,000,000 a year from the public for first-class stamps and pays the railroads about \$26,000,000. So that a very small fraction of the three-cent stamp goes to the railroads—that is, only 4 per cent of three cents—while the airlines get nearly all of the present six-cent airmail stamp revenue.

Not since the 1920's has there been a real study made of the problem. Meanwhile, operating expenses have gone up so that it costs the railroads, for instance, twice as much as it did then to carry mail. But they have not been able to get from the government a proper charge for service rendered. The laws of the land say the railroads should get a "fair return" but, owing to the involved system of making rates, the railroads find themselves stymied. When they ask for an increase, the I.C.C. naturally takes testimony from the Post Office Department, and there have been substantial delays because the subject is one of great complexity. Likewise, the Post Office Department is faced with a deficit, anyway, so it hesitates to agree to any increases that augment its expenses.

The railroads, on the other hand, see their competitors the airlines—being heavily subsidized. While they do not question the wisdom of keeping the airlines going, they do wonder why the railroads should be required to render service without even meeting actual costs. One railroad executive puts it this way:

"The government is subsidizing some activity through all the processes of the American economy. In transportation the barge lines are subsidized, and we pay taxes to make that up. It is true of the highways; it is true of the airways; it is true with all the various authorities. But the question is why, when all our competitors are subsidized, we should subsidize the government—and that is what we are doing when we haul mail at less than cost. For our present mail rates, even including the 25 per cent interim increase, and considering the 40-hour week to go into effect on the railroads, are just about half our costs."

The question of price and competition enters into the picture, too. Thus, the railroads aren't making any money out of handling express or out of handling mails. The more they try to raise their express rates to bring them up to a profit point, the more business they push over into parcel post. The same thing happens with less-than-carload freight. What it amounts to in the end is that the railroads subsidize the government so that it can handle parcel post at less than it costs the railroads to haul the same articles. This means the railroads are helping the government to compete with themselves on both parcel freight and express.

Senator Langer of North Dakota, who sponsored the resolution which the Senate has adopted, points out that parcel post rates are different on the airlines and the railroads and ships. He thinks the rates should be co-ordinated. The Post Office Department pointed out to the Senate that the inquiry proposed is interesting but that it is in the midst of a study of its own.

Meanwhile, the railroads, balked in their attempt to get some action, a few weeks ago filed a request with the I.C.C. seeking a 35 per cent further increase because the roads learned that the Post Office Department wouldn't be ready to present evidence before the commission from its own study until sometime in the middle of 1950.

The railroads, unlike private business, cannot of their own initiative increase their prices to meet operating costs. They have to wait on government agencies—and that is usually a long, long wait.

- Reprinted, by permission of David Lawrence Associates, from the Washington Star.

### New and Improved Products of the Manufacturers

#### STEMM TIE PILER

ving

was form back plattion.

and

t as

all

in-

con-

of

and

ed.

ner

ate

ion

is

the

cu-

all

on

ke

ir-

es.

re

nt

il-

el

Stemm Bros., Inc., Leavenworth, Wash., is introducing a tie-handling machine, by means of which (along with an auxiliary conveyor) four men, with no manual carrying at all, can unload ties from box cars or gondolas at the rate of 10 to 16 per minute and pile them three stacks wide, 30 ft. high, and to a depth of 100 ft. or more. It can also be used with equal effect in the reverse operation, i.e., handling ties from storage into cars.

This Stemm Tie Piler consists essentially of a welded steel tower, 33 ft. high, mounted on a carriage with four flanged wheels which operate on a 72-in. gage track laid along the tie piling area; a half-ton stake hoist which travels upward on the car side of the tower and downward on the other; and a retractable infeed, or conveyor, which delivers the ties from the car to the stake hoist. The machine, which incorporates a 5-ton car mover, can itself travel either forward or reverse at a speed of 3 m.p.h.

With the unit spotted opposite the desired stack location, the infeed is extended into a gondola or box car in such a way that ties can be pulled onto it by picks or hand tongs without manual carrying. The infeed conveys the ties to the stake hoist where they are picked up, one by one, and carried up over the top of the tower and down the opposite side. As each down-coming tie reaches the stake level, it is picked up by an auxiliary gravity wheel conveyor, which carries it back from the machine to the portion of the stack being built up. The auxiliary conveyor is made in sections which can be quickly attached or detached while the machine is in operation. All operations of the machine are under push-button control.



Above—The Stemm Tie Piler in operation. The ties are carried back from the machine on sectional gravity wheel conveyors. Below—The car side of the Stemm Tie Piler, showing the retractable infeed



### NEW DEVELOPMENT IN PRESERVATION

As the result of a cooperative research program on wood preservatives, Koppers Company, Pittsburgh, Pa., and E. I. du Pont de Nemours & Co., Philadelphia, Pa., have developed a new wood preservative, Copperized chromated zinc chloride.

Results of various tests to evaluate the new preservative were as follows:

Leach Block Tests — These indicate

Leach Block Tests — These indicate that Copperized CZC will resist leaching better than CZC. Furthermore, it appears that the addition of cupric chlo-

ride does not chemically alter the CZC; the latter retains its usual preservative, fire-retardant and leach-resistant qualities and is improved by the high toxicity and leach resistance of cupric chloride.

Hardware Corrosion Tests — The corrosion of hardware in contact with wood treated with either CZC or Copperized CZC is very slight and is essentially of the same magnitude in either case.

Accelerated Service Tests — In all cases it was found that the addition of cupric chloride to CZC improved the preservative value of the compound.

Pilot Plant Treatments — The preser-

vative proved in these treatments to be similar, in handling, treating and control of the solution equilibrium, to CZC and other salt preservatives containing more than one type of toxic ion.

Strength Tests — Results indicate that treatment of wood with Copperized CZC is not detrimental to static-bending, compression, shear and hardness values of wood

Glow Tests — The results indicate that Copperized CZC does not impart severe glowing characteristics to wood; glowing in wood treated with Copperized CZC is similar to that treated with CZC.

### Pascagoula Builds a Ship Channel

Unlike other waterway projects, this one is being paid for without "federal aid"



The Mississippi Export line crosses the Escatawapa river to reach Pascagoula from the north

The government, through namby-pamby socialistic policies, is destroying the greatest American heritage -initiative, Bill Herring told the Rotarians in his native city a few weeks ago. Bill isn't a Republican from Maine or Minnesota; he's a native Mississippian, president of the Pascagoula-Moss Point Bank. Moreover, he practices what he preaches, for it was during "coffee hour" at his bank that the idea of making Pascagoula an important seaport-without the aid of federal funds -was born. Between ten and eleven each weekday morning, leading citizens of the two adjacent cities gather in the directors' room of the bank for a "cracker barrel" discussion of their mutual problems. It did not seem to them that a waterway to be built without the financial support of the federal government was an unnatural idea, in which they are in complete disagreement with the proponents of dozens of other waterway schemes now being advocated throughout the country. who are loudly demanding "federal aid."

#### Considerable War-Time Activity

During the war, the Pascagoula-Moss Point area in Jackson county developed considerable industrial activity. The Ingalls shipyards turned out more than 125 ships, ranging from aircraft carriers down, while several smaller shipyards in the area were building lesser craft for the Armed Forces. Even a local company that is famous among hunters the world over for manufacturing decoy ducks was converted to wartime activity and made oars and paddles on government contracts. As a result of all this activity, Pascagoula jumped in population from 5,800 to 44,000, while Moss Point, four miles distant, increased from 2,500 inhabitants to 6,500. Following V-J day, the war workers departed in droves, but some 16,000 people still remain in the two cities, employed by the shipyards, the menhaden fish oil plants, the textile and paper mills and smaller industries.

The business men of the area were concerned lest the population of the area should dwindle further. As early as 1944, they had organized the Pascagoula-Moss Point Chamber of Commerce to promote postwar industrial activity. They insisted that this section of the Mississippi Gulf Coast has many advantages to offer industry, particularly if Pascagoula could be made into a seaport to accommodate large vessels. The city is only nine miles from deep water, permitting a rapid turn-around of ships that would represent a large saving to their owners. There already was in existence a ship channel that had been dredged by the Navy during the war, but as it was only 22 ft. deep and 225 ft.



A large area for industrial plant sites was filled in south of the main line of the Louisville & Nashville at Pascagoula

wide it was not adequate for handling large freighters. It was these circumstances that led "coffee hour" citizens to get together and propose a plan.

The project was carried out quickly, and an improved ship channel is now rapidly nearing completion. It begins in Pascagoula, extends for over a mile to the mouth of the Pascagoula river, then traverses shallow Mississippi Sound and reaches the deep waters of the Gulf through a "pass" between two islands. It is being dredged to a depth of 31 ft., and a width of 275 ft., with a channel 35 ft. deep and 325 ft. wide across the bar at the pass, where wave action requires that ships have more room.

#### Financing the Project

The men behind the project did not sit back and appeal for federal funds. First they went to the Mississippi state legislature. Pointing out that, at the height of the shipbuilding activity, more than 75 per cent of those employed were Mississippians, they demonstrated, county by county, how much of the shipyard's wartime payroll of more than \$100 million had gone back to every county in the state. They pointed out that, if the channel were dredged, the shipyard could enter the bidding for repair and maintenance contracts for Navy, Army and Maritime Commission work, which would not even be considered with the existing channel. The state legislators appropriated \$250,000 and the project's backers then proceeded to add \$500,000 of local money to this appropriation, through the sale of Jackson County bonds for the purpose.

The financing was completed in April, 1948, and in less than a year the channel was practically completed. In addition, a large turning basin has been constructed in the Pascagoula river. A bayou on the west bank has been filled and the bank of the river, from the main line of the Louisville & Nashville south to the mouth, has been raised 12 ft., through dumping and spreading the dredged material on it, thus making available an area for industrial sites 1¾ miles long and 1,000 ft. wide, in immediate proximity to both rail and water transportation.

The city of Pascagoula already owned docks on the east bank of the river, which were almost exclusively used by tows and barges plying the intercoastal water-

way along the Gulf of Mexico. These docks are also being improved and a dock warehouse, with 40,000 sq. ft. of floor space, is to be constructed.

#### A Very Solvent Railway

In addition to the L. & N., the new port is served by the Mississippi Export, a 42-mile railway extending between Pascagoula and Lucedale, Miss., where a connection is made with the main line of the Gulf, Mobile & Ohio. The M. E. is an early example of the civic enterprise in the Pascagoula-Moss Point area. Originally a logging line, which served Moss Point in the days when that town called itself the largest lumber port in the world and the home of no less than eight lumber millionares, the little railway fell into bad days after the timber in the area was exhausted. It was faced with obliteration until the local citizens rallied around and kept it alive by local subscription. Some chipped in \$2 and some \$200, more through civic pride than with any hope of gain, and thus stopped the sale of the line for junk. As a result of the location of a large paper mill and other industries on the line, and, of course, a tremendous wartime traffic, plus efficient operation (the operating ratio of the M.E. was 60 in 1948), this railway since 1936 has paid substantial dividends to its shareholders. It is completely Dieselized and, as the result of the purchase of large quantities of ties and rails from the War Surplus Administration, is in the finest physical shape of its history.

#### Still Planning

The citizens of Pascagoula have further plans, when the money is available, for constructing a slip along the west bank where large vessels may dock, but their immediate objective is to promote the location of more industries on the sites available where such industries can build their own wharves and docks.

W. R. Guest, executive vice-president of the Ingalls Shipbuilding Company, and one of the port commissioners, explained the idea behind the port development. "We don't want this to be a political football and mixed up with federal, state or local politics. We want this port to be a place where private enterprise will have the chance to flourish under its own steam."

## T. A. A. Asks "Collective Action" on Reparations

### Says "repudiation" suits could "destroy enterprise system"

Declaring that the suits of the antitrust division of the Department of Justice to recover 2½ billion of alleged overcharges on wartime traffic handled by railroads represent a direct repudiation of government agreements and a broadside attack to force nationalization of all transportation, Donald D. Conn, executive vice-president of the Transportation Association of America, has appealed for collective action of all farm, trade, and civic organizations to stop the use of federal power to destroy the free enterprise system.

In a personal letter to 5,200 leaders of farm and trade groups, business organizations and chambers of commerce, he

"If a bill to nationalize all transportation were introduced in Congress, it would be dealt with, in summary fashion, by unanimous opposition of all enterprise. Just as grave in its implications is the assault of the anti-trust division of the Department of Justice against the railroads for recovery of 2½ billions in alleged overcharges on wartime ship-

#### **Broad Public Interest Involved**

"The association believes this attack involves a broad public interest; therefore, it has asked leave to intervene in the proceedings before the Interstate Commerce Commission. As could be expected, the division requested the commission to deny our petition . . . But, fortunately, for the public interest, the commission over-ruled the objections of the division.

"What are the facts?

"1. The War Department and the railroads agreed on what the rates should be for handling munitions, equipment, and supplies.

 The level of these agreed rates was far less than paid on commercial traffic.

"3. A large portion of the charges paid by government have already been returned to the federal treasury through income and excess profits taxes.

"Suppose a carload of munitions, because of its heavy weight, did earn a revenue much higher than a carload of commercial traffic, it all went into making up the total gross revenue which,

after expenses were deducted, left the railroads only 4.6 per cent on their net investment for the entire war period. No one claims this net return was too high. Now, four years after VJ day, the commission is, in effect, asked to determine whether the government paid too much and the commercial shipper paid too little.

#### What is the Ultimate Objective?

"There is far more involved in these suits than the mere legal adjudication as to whether a rate agreed upon at the time was or was not reasonable. Why, now, would the anti-trust division propose to repudiate such agreements? Who planned such attacks? What is the otive? What is the ultimate objective of these suits? These are the questions to which we seek adequate answers. They are questions which involve you and every business enterprise in this country.

"Federal laws and procedures are designed presumably to protect the public interest. No one argues about that. But how long will the farm and business leaders of this country sit idly by and permit this use of federal power to destroy the enterprise system? The railroads, being a convenient political football for the past 50 years, are now singled out as the most vulnerable segment of that system.

"This association is concerned with the public interest in adequate, efficient, and low cost transportation of all kinds. It is not interested in the competitive conflicts between the different forms of transport nor in promoting one against the other. But it recognizes that any major political attack against any one form of transport could easily lead to government ownership of all forms."

Clarence F. Lea, director of governmental relations of the T.A.A., and former chairman of the interstate commerce committee of the House of Representatives, will represent the association before the I.C.C.

#### Time Zone Inquiry

The Interstate Commerce Commission has reopened its general Standard Time Zone Investigation for the purpose of determining whether previous orders in the proceeding (No. 10122) should be modified so that Hamilton County, Tenn., or any of the remainder of that state now in the Central Time zone, should be included in the Eastern Time zone. The reopening was in response to a petition filed by the Chamber of Commerce, Junior Chamber of Commerce, and Retail Merchants Association of Chattanooga,

Tenn.; and the reopening order stipulated that anyone wishing to make representations on the matter may do so by submitting presentations to the commission in writing on or before July 10.

#### Rules for Brokers Selling Motor Freight Service

Division 5 of the Interstate Commerce Commission has issued a report prescribing rules and regulations governing the practices of brokers engaged in selling motor freight service. The report was in Ex Parte No. MC-39, and the rules apply to all brokers in the motor transport field, except those brokering exclusively the transportation of passengers and their baggage.

#### **Waybill Studies**

Two additional waybill studies have been issued recently by the Bureau of Transport Economics and Statistics of the Interstate Commerce Commission. They are: Statement No. 4918, Distribution of Freight Traffic and Revenue Averages by Commodity Classes—Terminations in Third Quarter of 1948; and Statement No. 4920, State-to-State Distribution of Tonnage by Commodity Groups—Terminations in Fourth Quarter of 1948.

#### Claim Agents Meet at Asheville

The Association of Railway Claim Agents recently held its sixtiet' annual meeting at Asheville, N. C., with H. A. Fathauer, assistant general claims attorney of the New York Central and president of the association, presiding, and the following topics highlighting the business sessions:

Psychology and Its Practical Application in the Adjustment of Claims, by J. Forest Jamison, claim adjuster, Nor-folk & Western; Discussion of Section 1404(a), Title 28, U. S. Code, by James A. Weems, Richmond, Va., attorney; Interesting Sidelights on Railroad Litigation by Wayne Ely, division counsel, Gulf, Mobile & Ohio; Inspection of Tools, Equipment and Premises in Relation to Claim Investigation Immediately Following the Occurrence of an Accident, by A. A. Ische, adjuster, Chicago, Milwaukee, St. Paul & Pacific; Some Reflections on the Claim Picture in Canada by F. W. Kernaghan, general claims agent, Canadian Pacific; Recent Trends and Decisions of Federal Employers' Liability Act, by Drennan Slater, assistant general solicitor, Chicago & North Western; Orthopedic Consultation

in Railroad Injuries, by Dr. Ernest Celli, assistant chief surgeon, Illinois Central; and What Can Be Done to Prevent the Upsetting of Releases on the Grounds of Fraud or Mutual Mistakes, by Smith R. Brittingham, senior general attorney, Seaboard Air Line.

E. N. Muldoon, general claims attorney of the Chicago North Shore & Milwaukee, was elected president of the association to succeed Mr. Fathauer, with the following elected as vice-presidents: K. A. Carney, chief claim agent, I. C., W. J. Crecelius, general claims agent, Louisville & Nashville, and Mr. Kernaghan. F. L. Johnson, general claim agent, G. M. & O., was re-elected secretary-treasurer.

stinu.

rep-

so by

nmis-

erce

pres-

vern-

d in

port

the

otor

ex-

gers

ave

of

of ion.

bu-

Av-

na-

and

Dislity

ar-

le

im

al

H.

ms

nd

ıg,

he

T-

on

es

n-

el,

of

li-

ın

i-

;;

n

al

ıt

0.

Kansas City, Mo., was selected as the site of the association's sixty-first annual meeting in 1950, and New Orleans, La., as the location of the 1951 convention.

#### Dr. O. H. Horrall New Chairman Of A.A.R. Medical Section

Dr. O. H. Horrall, chief surgeon of the Chicago, Burlington & Quincy, was elected chairman of the Medical and Surgical Section of the Association of American Railroads at the section's twenty-ninth annual meeting at Atlantic City, N. J. Dr. Horrall succeeds Dr. R. M. Graham, director, department of sanitation and surgery, Pullman Company; and has in turn been succeeded as vice-chairman of the section by Dr. Fuller Nance, medical and surgical director of the Baltimore & Ohio. J. C. Caviston continues as secretary.

William White, president of the Delaware, Lackawanna & Western, was guest speaker at the meeting, which was featured by a panel discussion on railroad medical problems, led by Dr. Graham, and by reports of committees on developments resulting from physical examinations, Dr. Horrall, chairman; on fractures, Dr. Duncan Eve, chief surgeon, Nashville, Chattanooga & St. Louis, chairman, and disability and rehabilitation, Dr. R. G. Carothers, chief surgeon, Cincinnati, New Orleans & Texas Pacific, chairman.

### Cites Inequalities In Rail and Truck Taxes

"Rail transportation today is a smaller proportion of the cost of most goods than it was in 1939," said William G. White, general superintendent of the Delaware, Lackawanna & Western, in addressing the Traffic Club of North Jersey at Paterson on June 13. "As an example, to move a carload of wheat, cotton or coal to market today takes the proceeds of only one-half as many bushels, bales or tons as it did before the war."

Mr. White also cited inequalities as between rail and motor transportation caused by high taxes paid by railroads partly for maintenance of commercially-used highways. He told the audience that during the seven years ended in 1947, federal, state and local governments

#### This Applies In the United States, Too!

"Too many people fail to realize that railways are common carriers, while highway transport operators are not. That means that a railway company must be prepared to furnish transportation for any goods which can possibly be handled on railway cars, from every point on the railway to every other point. The operators of highway vehicles have the privilege of selecting those goods which they will transport, and of refusing to handle any form of traffic from which they could not hope to obtain an adequate return.

Thus, when the agent of a highway transport organization approaches one of you to solicit traffic, he does not say to you that he will furnish you with a service equivalent to that which you can obtain from the railway company, at such rates that your total cost of transportation will be less than that which the railway would charge. He merely comes to you and says that he will move certain of your goods for you at a lower rate than the railway offers. ... This sort of thing, if carried far enough, may make it impossible for the railways to furnish you the transportation of the goods which the highway operator does not happen to want to carry, except at a great increase in rates, so that, in the end, your total transportation bill will not be reduced, but may even be increased. . . .

"The common carrier—the operator of transportation who must take all forms of traffic which are offered him—is at a desperate disadvantage as compared with the competitor who can step in and select the cream of the traffic to move, leaving the skim milk to the common carrier.

"Owing to the lack of adequate regulation of highway transport, owing to a failure to realize the importance of preventing selective competition on a subsidized basis with essential common carriers, highway transport has been permitted to deprive the railway companies of some of their most lucrative traffic—with the net result that the total cost of transportation to the people of Canada has been increased—even if the traffic diverted to the highways in this fashion has been moved, in some cases, at rates lower than those which the railway companies would have been bound to charge."

—From an address to the Canadian Industrial Traffic League (Niagara district) by P. C. Armstrong, economic consultant, Canadian Pacific

had spent \$53 billion for highways, waterways and airways, while during that period the railroads had spent \$27 billion of their own funds for construction and improvements.

and improvements.

"In New Jersey," continued Mr. White,
"a truckman's license costs less than in
surrounding states. Gasoline taxes also
are less; and there is no legal limit to
axle loading of trucks. Furthermore,
there is no checking arrangements for
control of those few New Jersey laws
which regulate trucking on highways.
The distressing part about this situation
is that the trucks, by and large, are not
in competition with the railroads as a
whole, but compete for business only
where it offers the most lucrative income."

### Canadian Railway Earnings "Dangerously Low"—Mather

The present level of freight rates is "below the true economic cost of rail transportation." President W. A. Mather of the Canadian Pacific told the 78th annual convention of the Canadian Manufacturers' Association at St. Andrews-by-the-Sea, N. B., last week.

Elsewhere in his speech he declared that those who believe in the private enterprise system should first tell their fellow citizens why they believe in it, "then do everything in their power to maintain the conditions under which the free economy can grow and prosper."

As a result of rising costs in the railway field, Mr. Mather said, "our net earnings are at an unhealthy and dangerously low level."

In order to keep up with technical ad-

vances, he continued, the railways must make substantial capital expenditures over a period of years; and to obtain the required capital their position must be such as to attract capital investment. But current stock quotations indicate that investors lack confidence in the C.P.R., he said, and the blame lies largely with the "artificial restraints which have prevented rail transportation prices from finding their natural economic levels."

He said rates are set at levels calculated to induce volume traffic where that is possible but consistent with the principle that rates must be compensatory to the railways. Some regions feel that "competitive rates are unjustly discriminatory, and should not be allowed unless made universal," he said, but the railway, in making a competitive rate does not create a transportation advantage for particular shippers, but simply recognizes that the advantage already exists. To extend competitive rates to large volumes of traffic where they are not required, Mr. Mather contented, "would be ruinous to the railways unless they were compensated in some other way.

#### I.C.C. Will Reconsider Charge For Unloading Fruits at N. Y.

The Interstate Commerce Commission has reopened for rehearing the case wherein its report of last October authorized railroads serving New York and Philadelphia, Pa., to establish on November 1, 1948, charges for unloading carload shipments of fresh fruits and vegetables in those cities. The proceeding is I. & S. No. 5500, and the re-

opening had been sought in several petitions, including those of the Secretary of Agriculture, the Florida Railroad and Public Utilities Commission, and associations representing interested shippers. The reopening order said that the time and place of the rehearing would be fixed later (see Railway Age of October 30, 1948, page 97).

#### Eastern Fare Case Set For Hearing July 13

Hearings in connection with the Interstate Commerce Commission's consideration of basic fare increases proposed by eastern railroads will be held before Commissioner Rogers and Examiner Burton Fuller on July 13 at the Hotel St. George, Brooklyn, N. Y. As noted in the Railway Age of June 11, page 54, the railroad petition, which the commission has docketed as No. 30256, proposes to raise the basic fares by 12½ per cent, or from 3 cents to approximately 3.375 cents per mile in coaches, and from 4 cents to 4.5 cents per mile in sleeping and parlor cars.

The petition also proposes to make like percentage increases in excess-baggage charges, round-trip fares, and multiple-ride fares (other than commutation). The minimum increases in all fares involved would be 5 cents, and the minimum one-way fare would be 20 cents.

Another notice from the commission announced that on July 12, the day before the hearing on the above petition, Commissioner Rogers and Examiner Fuller will hold a hearing, also at the Hotel St. George in Brooklyn, on the fare-increase petition filed earlier by trustees of the Long Island. That petition, docketed as No. 30257, requests authority to increase the L.I.'s portion of interstate fares by 16 2/3 per cent, or to approximately 3.5 cents per mile in coaches and 4.66 cents per mile in parlor cars. The proposed increase would apply "to all basic interline fares, including roundtrip fares, the scale of fares for distances under 15.5 miles, and accessorial charges predicated upon basic fares."

### Rules C.&S. Does Not Owe Taxes Claimed by Government

A three-judge federal court at Denver, Colo., has decreed that the Colorado & Southern (part of the Burlington Lines) is not liable for some \$3,000,000 in additional income and excess profits taxes claimed by the government for the years 1942 and 1943. The taxes were proposed in a revenue agent's report delivered to the railroad on September 17, 1946—nearly 3½ years after a plan of adjustment had been approved for the railroad without the government having made any request for modification with respect to taxes, or otherwise.

The revenue agent's report undertook, among other things, to change the consolidated income tax and excess profits tax returns of the C. & S. and its affili-

ated and subsidiary companies for the years 1940 to 1943, inclusive, and to employ different principles and practices in calculating and computing the company's taxable income. The court censured the government for not presenting its claims "when duly notified that the plan of adjustment was under consideration by this court." In addition to finding that "no income taxes or excess profits taxes for the year 1942 are owing, due or payable to the United States, the court stipulated figures to be used in determining the consolidated taxable income, if any, of the C. & S. for the year 1943. It further declared that the United States, in calculating and computing the carry-over net operating loss deductions, the carry-over excess profits credits and the taxable income of the railroad and its subsidiaries for the period from 1940 to 1943, inclusive, is "estopped, barred and precluded" from using principles and practices different from those ordered by the court,

#### Arouse Public to Railroads' Plight, Says Katy Chairman

"There is nothing wrong with the railroads so far as their physical plant and progressive managements are concerned. but there is something wrong in the treatment they receive, and in the thinking of the public, which lacks the facts to make a true appraisal of the situation in which the railroads are involved," R. J. Morfa, board chairman of the Missouri-Kansas-Texas, declared in an address last week at Fort Worth, Tex., before the traffic club of that city. He added that freight rates can be lowered when the public has a true understanding of the facts and is sufficiently aroused to give the railroads a "square deal."

Attacking the subsidization of competitive forms of transportation, Mr. Morfa stated: "Railroaders are red-blooded, hard-headed, realistic individualists. Any competitors who pay their own way are regarded as wholly fair, and we will be glad to match our abilities with theirs in fair competition."

"It is our earnest hope," Mr. Morfa also said, "that enlightened labor leaders will correct the abuses that some in their ranks are trying to perpetrate in the form of 'featherbedding' rules. It is for their own welfare, as well as that of the railroads, that they should do away with these abuses. . . . Railroad employees have a great stake in the growth, survival, vigor and security of the railroad industry. If they expect to continue to merit a large share of railroad earnings, they must make some contribution toward efficient and profitable operation. They can do this by foregoing demands for wage increases if they are not earned, and by giving full value for the wages received. A healthy, profitable railroad industry is the best assurance railroad employees can have for sustained good wages and security in their jobs."

Industrial traffic men, Mr. Morfa stated, are "partners" of railroad management in seeing to it that the railroads get a square deal; "this certainly is for your own good, as well as the good of the railroads and of the nation as a whole."

#### Task Group of Resources Board Making Port Studies

A survey of each principal seaport in the United States, with the object of determining that port's maximum tonnage potential in the event of war, has been launched by a special task group of the National Security Resources Board. Results of the survey will be considered in the preparation of a report to Presidential Assistant John R. Steelman, acting chairman of the board, by Captain Granville Conway, director of the board's Office of Transport and Storage.

General Robert H. Wylie of San Francisco, Calif., manager of the Board of State Harbor Commissioners, presided at the task group's organization meeting. "It is obvious," he told the group, "that national security prevents the assignment or allocation to any port of a specific amount of tonnage representing its probable war load, inasmuch as such information would indicate the general areas of possible conflict as well as the nature of the plan. However, we can and will develop a mobilization plan for each port based on the maximum capability of all transport agencies serving the port. Then, whatever the size or kind of the shipping requirements in a future emergency, each port will be able to render maximum support to the war program."

Participating in the meeting were representatives of a number of other task groups organized to consider the problems of mobilization in the various fields of domestic and overseas transport, including the use of terminal and storage facilities in the ports. Colonel Merle J. Reynolds, director of the Plans Division in the Office of Transport and Storage, served as secretary of the special task group.

Others taking part in the meeting included: John V. Lawrence, managing director, American Trucking Associations; Henry F. McCarthy, vice-president, traffic, New York, New Haven & Hartford; and George C. Randall, manager Port Traffic, Association of American Railroads.

#### Charles O'Hara Receives Honorary Ll.D. Degree

Charles O'Hara of Shorewood, Wis., a pioneer in refrigerated railroad shipping, was awarded the honorary degree of Doctor of Laws at the 1949 commencement exercises of Marquette University in Milwaukee, Wis., on June 11. A native of Ireland, and long the chairman of Marquette's board of governors, Mr. O'Hara is a past president of the Merchants Despatch Transportation Corporation and of the Northern Refrigerator

Lines. He is now a director of those organizations. The degree was conferred by the Very Rev. Edward J. O'Donnell, S.J., Marquette president.

od

n

#### Alco-G.E. Gas Turbine-Electric Completes Preliminary Tests

The first gas turbine-electric locomotive to be built and operated in the United States, an Alco-G.E. 4,500-hp. unit, has completed preliminary road tests and will see further service soon on the Union Pacific. The preliminary tests were made in the East over a period of several weeks, during which the developmental locomotive performed successfully on freight runs. Additional road trials will get under way next month when the unit is operated in freight service by the U. P.

These announcements were made jointly by the General Electric Company and the American Locomotive Company at the G.E.'s Erie, Pa., plant during the first public track demonstrations on June 16 of the locomotive, which first took to the rails last November.

Railroad officers, members of the press and representatives of both companies convened at Erie June 16-17 for the second Alco-G.E. Railroad Executives' Conference. Highlighted by exhibition runs of the locomotive, the two-day session was an outgrowth of a similar conference at Schenectady, N. Y., in March, 1948, when the gas turbine power plant was first shown.

Both Charles E. Wilson, G. E. president, and Robert B. McColl, president of Alco, described the completion of preliminary operating tests as another step in the locomotive research projects of their companies. They reiterated earlier statements to the effect that the Dieselelectric locomotive, "for the foreseeable future," will continue to be the prime source of new rail motive power.

source of new rail motive power.

G. W. Wilson, manager of General Electric's locomotive and car equipment divisions, told those attending the conference that "What we have seen so far of this new locomotive looks promising, but a great deal of exploring remains to be done." He added that trials on the U.P. will be helpful in evaluating the potentialities of gas turbine powered locomotives, but said also that factory and operating tests must be continued on a long-range basis before "the ultimate possibilities of this new type of rail power can be completely evaluated."

Alco-G.E. spokesmen previously had expressed hopes that special research efforts, joined with experience to be gained from operation of this first locomotive design, may lead to the development of successful means of burning coal in a gas turbine-electric locomotive. They said that Alco-G.E. is cooperating with the locomotive development committee of Bituminous Coal Research toward that end. The gas turbine currently is fired by Bunker C oil.

The locomotive is of single-cab construction with an operating station in



Preliminary road tests of the 4,500-hp. Alco-G. E. gas turbine-electric locomotive included hauling 85 loaded freight cars at speeds as high as 65 m.p.h.

each end and has B-B-B running gear. It develops 53-hp. per foot of length, weighs 500,000 lb. and has a continuous tractive force of 68,500 lb. at 20.5 m.p.h. It is 83 ft. 7½ in. long inside of knuckles, 14 ft. 3½ in. high over roofsheet and 10 ft. 7 in. wide over hand rails. Geared for 79 m.p.h., the locomotive carries enough fuel for 12 hours operation at 4,500 hp.

The power plant, consisting of compressor, combustion chamber and turbine, drives the generators through reduction gearing and electrical energy is supplied to eight traction motors, each of which drives one of eight axles. The announcement of the first demonstration of this locomotive appeared in Railway Age for March 20, 1949, page 554, and an article describing the power plant tests appeared in the January 15, 1949 issue, page 172. A detailed description of the locomotive will appear in a subsequent issue.

#### Pullman Employee Magazine Wins National Contest

For having played a major role in organizing an extensive sales campaign which resulted in \$2,600,000 additional revenue in 1948, The Pullman News, employee magazine of The Pullman Company, won top honors in a national contest conducted recently to determine the most effective use of house organs. During the campaign, over 800 employeemanagement conferences were organized on the employees' own time, with attendance averaging 98 per cent or better. Suggestions originating during the drive averaged in excess of one for each three employees.

The contest was conducted by the Southern California Industrial Editors Association of Los Angeles, Cal., which stipulated that editors of magazines furnish documentary evidence of how their house organs "paid off" in benefits to employees and to the company. The Pull-

man Company received an engraved plaque, and A. E. Greco, editor of The Pullman News, received a certificate of award and a check for \$100. The presentations were made recently at Toronto, Ont., at the annual convention of the International Council of Industrial Editors.

#### R. I. to Reward Acts of Courtesy And Service by its Employees

A \$100 savings bond will awarded each month to the employee of the Chicago, Rock Island & Pacific who, in the opinion of a board of judges, is outstanding in the performance of his or her duties. In addition, the winning act of courtesy or service will place the employee in the running for a yearly award of a \$500 bond. Runners-up will receive specially inscribed framed certificates of merit.

Nominations for awards—which may be competed for by all classes of employees except those in supervisory capacities—will be made by fellow-employees, officers, or the traveling and shipping public, by addressing a letter to the road's public relations department at 921 LaSalle Street station, Chicago. Nominations will be judged in key cities throughout the R. I. system by boards of judges which will be changed monthly. The board is to consist of one outstanding citizen of the community in which the judging takes place, a member of the railroad's General Chairman's Association, and an officer of the R. I.

#### Katy Cuts Texas Coach Fares For Six-Month Trial Period

The Missouri-Kansas-Texas, on June 8, reduced its one-way and round-trip passenger coach fares between Dallas, Tex., and Fort Worth on the north, and Houston, Tex., and San Antonio on the south, in a move to meet highway competition. The rates have been approved by the Railroad Commission of Texas

and will remain in effect for a six-month trial period, according to J. F. Hennessey, Jr., vice-president—traffic. It is understood that other southwestern roads have filed applications for reduced rates similar to that of the Katy.

The round-trip fare between Dallas and San Antonio, for example, has been reduced from \$13.05 to \$8.95 (federal tax not included) and the one-way fare from \$7.25 to \$4.95. Proportionate reductions have been placed in effect at intermediate points. Between Dallas or Fort Worth and Houston, the reduction is from \$11 to \$9 for round-trips and from \$6.10 to \$5 one-way. Proportional rates are also in effect between other intermediate points where the new rates are less than the regular 30-day and 90day fares. The time limit will be five days on one-way tickets and 15 days on round-trips.

Mr. Hennessey said that the reduction on the Katy was decided upon after long study, during which it was learned that although the private automobile has been cutting into railroad passenger traffic, a dozen bus lines, with lower rates, have been doing steadily increasing business. "I am confident," said Mr. Hennessey, "that the superior travel facilities on the Katy will attract back to the railroad a great deal of the business that has been lost to other forms of competition wholly and solely because of the rate difference."

#### Parmelee Says Panama Canal Toll Is Too Low

"The existing Panama Canal toll rate of 90 cents per ton is unduly low, when measured by current cost levels and factors of relative use," Dr. J. H. Parmelee, vice-president of the Association of American Railroads and director of its Bureau of Railway Economics, said in a statement made June 14 before the commission on merchant marine and fisheries of the House of Representatives. The committee, which is engaged in a study of financial operation of the canal, has before it a proposal (House Resolution 44) advanced by American shipping interests, the effect of which would be to lower payments for use of the canal. This would be done by omitting interest on investment and half of certain other costs of operation as elements of cost on which toll rates are based.

Commercial users of the canal, Dr. Parmelee suggested, should pay at a rate no less than 50 per cent higher than the current rate in order to meet the canal costs properly attributable to their use. To the extent that commercial users are being charged less than their fair share of the cost, he told the committee, the shipping interests involved are being subsidized. Noting the very heavy commercial use made of the canal by foreign shipping, Dr. Parmelee stated that "more than half of such a subsidy inures to the benefit of foreign shipping and is at the expense of American taxpayers."

The witness pointed out that the cost

of operating and maintaining the canal had increased 90 per cent in the past 10 years. On this basis, he said, "the very conservative upward revision of toll rates from 90 cents to one dollar approved by the President and implemented by him in his Proclamation No. 2775, seems certain to prove inadequate to meet current costs."

The railroads' interest in the Panama Canal and its operations, Dr. Parmelee said, is two-fold. These he listed as (1) that of "heavy taxpayers" who "contribute to the subsidies that other transportation agencies are enjoying at the hands of the federal government," and (2) that of "the country's largest and most widespread transportation agency which competes for traffic with ships using the canal in intercoastal trade."

"In both capacities," he stated, "the railroads have a right to expect the government to operate the canal on a sound business basis, in such manner as to eliminate unfair competition and preserve the objectives laid down by Congress in its declaration of national transportation policy."

Preceding Dr. Parmelee before the committee, Assistant General Solicitor Gregory Prince of the A.A.R. recognized the military value of the canal, but pointed out that its principal function was commercial. He quoted from the report of a special committee appointed by President Roosevelt in 1936 to study the canal toll situation, which found that "the cost of constructing and the expense of maintaining and administering the canal are obligations that have been assumed primarily to provide a commercial facility." "The capital and the current expenses thus incurred," the report added, "may properly be borne by the shipping that is aided. . . ."

Concluding, Mr. Prince recommended that the present policy of including interest on investment and other necessary costs in their entirety as a part of the cost of operation of the canal be continued. "By so doing," he said, "the government would avoid the unwise step of conferring a very substantial subsidy upon foreign shipping and would avoid action in derogation of the national transportation policy declared by Congress...."

#### 1948 Crossing Accidents

Accidents at railroad-highway grade crossings during 1948 resulted in the death of 1,612 persons and injuries to 4,255, according to the latest compilation by the Bureau of Transport Economics and Statistics of the Interstate Commerce Commission. In 1947, 1,790 persons were killed and 4,251 injured.

Crossing accidents last year totaled 3,964, as compared with 4,015 in 1947, a decrease of 1.27 per cent, while fatalities declined 9.94 per cent and injuries increased 0.09 per cent.

Another tabulation shows that the 1948 crossing fatalities accounted for 45.13 per cent of the persons killed that year

in all railroad accidents resulting from train operation. This compares with 45.-39 per cent in 1947 and 44.42 per cent in 1946. Crossing accidents accounted for 16.56 per cent of 1948's non-fatal injuries, as compared with 14.59 per cent in 1947 and 14.52 in 1946.

According to the summary, 1,676 freight trains and 1,366 passenger trains were involved in the 3,592 rail-highway accidents involving motor vehicles in 1948. The number of grade-crossing accidents per million train-miles was higher in 1948 for freight and yard switching trains and lower for passenger trains, as compared with 1947, the frequency rate being 2.87 per million train-miles in 1948 (as compared with 2.65 in 1947) for freight trains, and 3.35 for passenger trains, as compared with 3.44 in 1947. Approximately 64 per cent of the accidents in which the motor vehicle was struck by the train occurred in the daylight, while about 71 per cent of those in which the motor vehicle ran into the side of the train occurred after dark.

As has been the case since 1945, December was the 1948 month in which the greatest number of crossing accidents occurred. Saturday, which has held first place since the compilation was first begun in 1935, remains the day of greatest accident frequency. The weather was reported "clear" when 68 per cent of the accidents occurred; and the speed of the motor vehicle was given as "standing" or moving at not more than 30 m.p.h. in 59.38 per cent of the accidents involving motor vehicles.

'An accurate measure of the influence of traffic volume upon the frequency of grade-crossing accidents is not available," the bureau observed. "The best obtainable measures are limited in that they include only rail and motor-vehicle data. These data are train-miles operated and motor-vehicle registrations. Trainmiles were 3.78 per cent less in 1948 than in 1947, but motor-vehicle registrations increased 8.61 per cent in the same period. The number of rail-motor gradecrossing accidents decreased only 0.73 per cent, but deaths therefrom decreased 10.91 per cent. Only one less person was injured in 1948 than in 1947 in such accidents. The frequency of such accidents per million train-miles increased 3.18 per cent, but the number of accidents per million motor-vehicle registrations decreased 8.6 per cent.'

#### Average Load Reached All-Time High in 1948

Average tons per car of carload freight reached an all-time high of 41.6 tons in 1948, according to an analysis prepared by the Car Service Division, Association of American Railroads, on the basis of commodity statistics issued by the Interstate Commerce Commission. The analysis was sent recently to A.A.R. member roads by C.S.D. Chairman Arthur H. Gass.

The 1948 figure compares with an average car load of 41 tons in 1947,

which was also the load attained in the peak war year of 1943. In 1929, the average load per car was 35.4 tons. By commodity groups, the average lead in 1948 ranged from 14.5 tons for animals and products to 56.3 tons for products of mines. Last year's average loads were higher than those of 1947 in all groups, except products of agriculture and forwarder traffic.

Mr. Gass explained that the decrease in the average load for products of agriculture (from 34.7 tons in 1947 to 34.5 tons in 1948) was due "primarily to the decrease in the number of carloads handled of heavy loading commodities rather than to a decline in the efficiency of car utilization for these commodities as a whole." For example, the C.S.D. chairman continued, "the average load for wheat was nearly 7/10 of a ton greater than in 1947 and the average load of corn increased nearly a ton. However, since fewer carloads of these commodities were handled than in 1947, the total for products of agriculture as a whole fails to reflect the more efficient utilization of cars in this traffic."

Mr. Gass also called attention to gains in 1948 over 1947 of one-half ton and "slightly more than one ton" in the average loads of such "important" traffic as bituminous coal and iron ore, respectively. Meanwhile, he noted that the total tonnage originated in 1948 was second only to that of 1947 in the commission's records. And he thought it "probable" that the average load in 1949 will be less than last year's record high. The drop, Mr. Gass said, will be due to the cancellation of the Office of Defense Transportation's minimum-loading order, ODT-18A, and to the decline in total tonnage. "When total volume declines, tons per car tends also downward," the C.S.D. chairman added.

#### Holds Further Hearings On "Radio-Safety" Bill

A subcommittee of the Senate committee on interstate and foreign commerce continued hearings June 14 on S. 238, a bill which would amend section 25 of the Interstate Commerce Act to give the Interstate Commerce Commission authority to require railroads to install and maintain communication systems and to establish and observe operating rules, regulations, and practices "to promote safety of employees and travelers." The bill was introduced by the committee's chairman, Senator Johnson, Democrat of Colorado.

The subcommittee which held the hearings is headed by Senator Myers, Democrat of Pennsylvania, and the first witness at the June 14 session was Commissioner E. M. Webster of the Federal Communications Commission. Mr. Webster said the F.C.C. took no position in regard to S.238, but it does want changes in the text to insure what it regards as a proper coordination of I.C.C. and F.C.C. activities in the field of railroad radio. Mr. Webster called the committee's

attention to the many problems which he said confront the railroads in their undertakings to use radio in their operations. Referring to the F.C.C.'s recent order taking away from the Railroad Radio Service 19 to 21 of the 60 frequencies originally allocated to it (see Railway Age of May 7, page 59), Mr. Webster said that the F.C.C. felt it could "safely" reduce the allocation made to the railroads. He called the present allocation of 41 frequencies in the Chicago area and 39 for the rest of the country a "fair" one. Here Senator Myers inquired if the 41 frequencies now assigned would meet the future needs of the railroads if the bill were enacted into law. Mr. Webster replied that they would take care of any requirements which I.C.C. might set up in the immediate future. He added, however, that, as progress is made and as the I.C.C. and the F.C.C. study the situation, it may be that 41 frequencies will not be suffi-

In opposing the bill, James M. Souby, general solicitor, Association of American Railroads; J. J. Brinkworth, vicepresident, New York Central; and Graham E. Getty, statistician, Bureau of Railway Economics, A.A.R., made presentations like those they made before the House subcommittee at its hearing of a similar bill, H.R.378, on May 17 and 18 (see Railway Age of May 28, page 46). However, Mr. Souby made reference to some figures Mr. Webster had used, i.e., the F.C.C. commissioner's statement that of the 131 Class I roads, 58 are now using radio, 13 of these at Chicago. Mr. Souby said the commissioner evidently took his figures from F.C.C. records, whereas later reports, as of May 15, showed 66 roads now using radio, 18 of these at Chicago.

Senator Myers inserted into the record a letter from W. D. Johnson, vice-president and national legislative representative of the Order of Railway Conductors of America. This letter listed 170 recommendations with respect to operating rules and practices appearing in the 669 reports on accident investigations made by the I.C.C. from January 1, 1942, to December 31, 1948. The hearing was then adjourned until June 23.

#### Car Supply Up, But Winter Wheat Storage Space Declines

As the winter wheat crop gets under way in the Southwest, the supply of box cars is greatly improved, but storage space for the crop has decreased considerably under previous years, Ralph E. Clark, a manager of the Car Service Division of the Association of American Railroads, said in Wichita, Kan., on June 15. Speaking at a meeting of the Trans-Missouri-Kansas Shippers Board, Mr. Clark said there are 5,800 more box cars on railroads serving the Southwest than there were a year ago and 19,000 more cars available than two years ago.

In addition to improving the box car supply, Mr. Clark added, the railroads in

the wheat belt since last year have installed many new and more powerful locomotives, modernized yard facilities in their terminals and at markets and made many other improvements in their equipment, roadways and structures, all of which have resulted in increased operating efficiency and economy. Mr. Clark pointed out that several public elevators and mills have been increased in capacity or have installed automatic car loaders so that a car of grain can be emptied in about one-third of the time needed by the power shovel method. "These enlarged and modernized facilities placed in service by the grain industry and the railroads in the past year will expedite the movement and unloading of cars at terminals and thereby shorten the turnaround time between loads, so that in the final analysis it will be possible to handle substantially more grain with fewer cars this season than in former years," he said.

The real problem in handling this season's grain crops, including the large winter wheat crop, is the storage space available in public elevators at terminal and sub-terminal markets, Mr. Clark explained. Public elevator capacity has increased by 14,250,000 bushels from two years ago when the crop was comparable to this year's production, he said. But because of a large carry-over of old grain in storage last year, elevator capacity is actually hout 72,000,000 bushels less than in 1947. For example, he continued, all public elevators at terminal markets in the Southwest had storage space, on June 4, for only about 47,500 cars of grain, while two years ago they had space for 91,900 carloads. Mr. Clark emphasized that although it is necessary to control by embargo the movement of grain intended for storage in order to prevent the congestion of markets, the railroads will move every bushel of grain for which storage space is available. In addition, he said, the box car supply is presently large enough to handle even more business than is now in prospect.

### Inequities of Transport Policies Up Costs to Public—Faricy

"The difficulty of the present transportation situation-and it is a very great difficulty, indeed-is that our laws, regulations and public policies as to transportation are so unequal in their application that much freight is not hauled by that agency which can do the job at the lowest true costs," William T. Faricy, president of the Association of American Railroads, declared in an address before the Executives' Club of Chicago, on June 10. The result, added Mr. Faricy, is an increase in total transportation costs to the public, even though in some instances, and on some freight, the rates charged may be lower.

Continuing, the A.A.R. president said: "This seeming paradox is due to both the nature of railroad operation and the contradictory nature of the laws and policies under which transportation is

carried on. Railroading is a volume business. It costs not a great deal more to run many trains than it does few, up to the limit of the capacity of the track. It costs very little more to run long trains than short trains. It costs hardly any more to move a full car than it does an empty. So, added freight—freight which would not otherwise be hauled—is the cheapest for the railroad to move.

"Conversely, the effect of not hauling freight is doubly serious, for operating costs cannot be reduced in proportion to the reduction in tons per car, or cars per train, or trains per mile of road. Under such circumstances, railroads earnestly seek every means of increasing their traffic. As true common carriers, however, subject to the strict regulation of their rates and charges, they are not free to seek added tonnage as such without reference to what they charge on the freight they already have. What they do for one, they must do for all similarly situated."

Referring to the subject of his address, "Chicago—Product of Transportation," Mr. Faricy said: "Chicago is located at a strategic crossroads in the water transportation system of the United States, but if Chicago had to depend entirely on water transportation, this city would find itself hungry and cold during a third of the year... Great fleets of trucks go into and out of Chicago, but all these trucks put together could not begin to serve the entire transportation needs of the city... All the planes that land... and take off serve only a minor portion of Chicago's intercity needs.

"And what is true of Chicago is true of the nation, because when one takes all the other forms of transportation and puts them together—the trucks, the waterways, the air lines and the pipelines—they handle a combined freight traffic which is only about one-half what the railroads haul. Putting it another way, the railroads today handle about two-thirds of all the intercity freight transportation in America.

"Why is that? It is because no other form of transportation, or all of them put together, can perform the mass transportation that reaches all parts of the country in all seasons of the year, and does it at rates which, even with the postwar inflated costs, still produce only about 11/3 cents per ton per mile. There is nothing in existence and nothing in sight that can take the place of the flanged wheel on the steel rail."

### Senate Committee Hears A.A.R. Officers on Air Subsidies

The advisability of paying further subsidies to domestic air transportation was questioned by Dr. Julius H. Parmelee, vice-president of the Association of American Railroads and director of its Bureau of Railway Economics, in a statement he made last week before the Senate interstate and foreign commerce subcommittee which is investigating the financial condition of the air lines. An-

other statement was made at the same June 10 hearing by the A.A.R.'s vice-president and general counsel, J. Carter Fort, who said that the railroads are against subsidies to any form of transportation and think that "there should be no exception to this general rule except under the most compelling circumstances."

In questioning the payment of further subsidies to the air lines, Dr. Parmelee said that the "infant-industry" argument is no longer valid because "the facts show that air transport has now come of age." It "has grown rapidly into a nationwide industry, with total assets close to half a billion dollars," the B.R.E. director added.

He also suggested that the committee's studies should develop the facts as to all subsidies granted to air transportation, and thus cover not only air-mail payments but also other aids such as government expenditures for the following: Construction and maintenance of airports; traffic control and regulation; special weather service for aviation purposes; safety regulations and practices; airman and aircraft licensing and inspection; maintenance of government promotional authorities; technical research and development under the supervision of the Civil Aeronautics Authority, and similar activities by the National Advisory Committee for Aeronautics.

#### Huge Sums Involved

"The sums of money involved in these activities," Dr. Parmelee said, "are of such magnitude that they have appreciable effects upon the national budget, upon state and municipal budgets, upon the air transport industry itself, and upon other carriers affected by the activities of air transportation."

As to payments for carrying the mail, Dr. Parmelee said that, in 1948, the railroads carried 94.7 per cent of the non-local letter mail and were paid \$26 million for that service. The domestic air lines carried 5.3 per cent of the volume and were paid \$41 million. "Stated another way," the B.R.E. director continued, "the railroads received 1/5 of a cent per letter and the air lines more than 5 cents. The Post Office Department had revenues exceeding expenses of \$87 million on the first-class, non-local mail carried by railroads, but had expenses exceeding revenues of \$27 million on the domestic air mail."

At another place in his presentation, Dr. Parmelee suggested that the needs of commerce for air transportation cannot be considered apart from the needs of commerce for the services of surface carriers. "Commerce," he asserted, "needs surface transportation in much greater volume than it needs air transportation, and it would not appear to be the part of wisdom to promote air transportation to the detriment of surface transportation."

For the past several years, Dr. Parmelee said, air cargo has been carried at a loss. He added that an industry which handles traffic at rates that do not meet operating costs "is offering an uneconomic form of competition with other industries in the same field," and in this case the "uneconomic competition" is "fostered by the present method of paying air-mail subsidies." As to the present fevel of air-mail payments, the B.R.E. director pointed out that they were approximately doubled between 1946 and 1948, although the volume increased only 14 per cent. The 1948 payments amounted to \$1.26 per ton-mile, as compared with 64 cents in 1946.

#### Suggests "Direct Approach"

Discussing the Congressional objective of promoting the development of air transportation in the interest of national defense, Dr. Parmelee suggested the "direct approach." He asked if the national-defense objective would not be more efficiently and advantageously realized "by appropriating money directly to the armed forces, instead of the present system of making subsidy payments to the air lines without any specific plan or direction as to its use to aid the national defense." In leading up to his raising of this question, the B.R.E. director had calculated that the domestic certificated air lines, in the event of a war emergency, "could supply only about 2.2 per cent of the total needed air personnel of the armed forces, even if the latter took everyone on the air line payroll from president to file clerks and messengers."

In expressing the railroads' opposition to transport subsidies, A.A.R. Vice-President Fort mentioned the "drain on the U. S. Treasury," saying that was "enough to condemn" a subsidy policy, "particularly at a time when money is needed as sorely as it is now, and taxes are as high as they are now." But a "much more important" reason for the railroads' position, Mr. Fort said, was their belief that "a sound transportation system cannot be developed when some forms of transportation are subsidized and others are not."

#### Describes "Sound" Transport System

"A sound system of transportation," the A.A.R. vice-president continued, "is one in which each of the several modes of transportation perform those services which it is best fitted to perform. If one form of transportation is subsidized its true costs are obscured and are not reflected in its prices or rates. Accordingly, the subsidized form draws to itself business which can be performed more cheaply by another form of transportation. Thus the subsidized form is developed beyond its true worth in an economic sense and there is a resulting distortion in the system of transportation.

"In no way can we determine which form of transportation is best fitted to perform the various transportation services except by having each form bear its own costs and having the full costs of each form reflected in the rates and charges which it makes to the public.

Under such a situation, the traffic will seek that form of transportation best suited for its purpose and the national transportation system will have a healthy and natural development."

#### Freight Car Loadings

n-is

p.

id

ly

ts

n.

ir

d

Loadings of revenue freight in the week ended June 11 totaled 808,156 cars, the Association of American Railroads announced on June 16. This was an increase of 109,332 cars, or 15.6 per cent, above the preceding week, a decline of 98,507 cars, or 10.9 per cent, below the corresponding week last year, and a drop of 87,136 cars, or 9.7 per cent, under the equivalent 1947 week.

Loadings of revenue freight for the week ended June 4, which included the Memorial Day holiday, totaled 698,824 cars, and the summary for that week as compiled by the Car Service Division,

A.A.R., follows:

#### A.A.R., 10110WS: REVENUE FREIGHT CAR LOADINGS For the week ended Saturday, June 4, 1949 istrict 1949 1948 1947 astern 118,493 140,037 160,21 llegheny ....... 118,493 140,037 195,66 ccahontas ...... 61,096 73,657 73,38 outhern ......... 106,519 134,523 137,52 orthwestern 116,080 121,365 136,11 central Western 100 340 115,647 131 23 District Eastern Allegheny Pocahontas 1948 140,037 171,787 73,657 134,523 121,365 115,647 Southern .. Northwestern .... Central Western 131,233 100,340 52,744 Southwestern 64,190 66,566 Total Western Districts 269,164 301,202 333,994 Total All Roads 698.824 821,206 900,747 Commodities: Grain and grain products ...... Livestock ...... Coal ...... Coke ...... Forest products Ore 40,423 10,927 196,443 14,501 41,644 81,590 93,447 45 064 40,897 8,125 142,708 12,332 34,946 78,174 45,064 12,683 195,961 14,457 46,380 80,490 117,242 Merchandise l.c.l. 80,099 301,543 342,231 388,470 Miscellaneous 698,824 900,747 June 4 .. 821,206 May 28 May 21 784,824 773,911 890,605 May 14 May 7 771,736 768,337 846.945 884 242 Cumulative total 22 weeks ....... 15,831,350 17,368,570 18,339,440

In Canada.—Carloadings for the week ended June 4 totaled 73,967 cars, compared with 66,157 cars for the previous week, and 77,695 cars for the corresponding week last year, according to the compilation of the Dominion Bureau of Sta-

	Revenue Cars	Total Cars Rec'd from
	Loaded	Connections
Totals for Canada:		
June 4, 1949	73,967	29,699
June 5, 1948	77,695	31,484
Cumulative totals for Ca	nada:	
June 4, 1949	1,591;639	697,954
June 5, 1948	1,628,284	783,641

#### **April Truck Traffic**

Motor carriers reporting to American Trucking Associations transported in April a total of 3,159,297 tons of freight, a decrease of 5.5 per cent below the previous month's total of 3,344,052, and 3 per cent below the 3,255,798 tons hauled in April, 1948. The figures, according to A.T.A., are based on comparable reports from 333 carriers in 41 states.

Additional General News appears on pages 84 and 85.

#### SUPPLY TRADE

#### International Steel Organizes **Railway Division**

The International Steel Company, Evansville, Ind., one of the largest fabricators of steel, by tonnage, in the country, has announced the formation of a railway division to manufacture and market railway products, including freight car sides, underframes, box car doors, brine tanks, stainless steel floors, racks, and bracing panels for refrigerator cars. In addition to these and other rolling stock parts now being developed, the company will furnish sectional buildings for use as oil storage depots, and shop and service buildings, which may be dismantled and relocated with 100 per cent salvage of original material. All fabricating will be done in the company's 11acre plant at Evansville, which has 500,-000 sq. ft. of floor space.

In charge of the railway division will be Walter G. Koch, senior vice-president of International, and Wesley D. Hamilton, vice-president, reporting to President Henry Bohnsach. The railway division recently retained as consultant K. F. Nystrom, retired chief mechanical officer of the Chicago, Milwaukee, St. Paul & Pacific, and one of the first products offered for railway use is the Nystrom car side door. This door is designed with interlocking top and bottom strips intended to prevent loss in transit, and can be equipped, when desired, with a hinged auxiliary top door opening for grain loading and inspection, thus eliminating the need for conventional grain doors.

R. C. Friedly, assistant general sales manager of the Nelson stud welding division of the Morton Gregory Corporation, Lorain, Ohio, has been appointed central states regional manager, with headquarters at Chicago.

Harry H. Lumley, Chicago district manager of operations at the American Steel & Wire Co. (subsidiary of United States Steel), has been appointed assistant to vice-president of operations, with headquarters remaining at Chicago. He has been succeeded by John R. Gaut, assistant manager of operations.

Richard N. Chapin has been appointed general purchasing agent of the Air Reduction Sales Company, to succeed Walter R. Clark, who resigned to become head of the purchasing department of U. S. Industrial Chemicals, Inc.

The Hyatt bearings division of General Motors Corporation has appointed George A. Burgermoster and C. Russell Todd as assistant purchasing agents to succeed William E. Jones, retired, and Leo V. Farrell, recently promoted to general purchasing agent.

The appointments of F. M. Urban as sales manager of engineered rubber products and H. Leon Moran as factory manager, Fort Wayne, Ind., plant, United States Rubber Company, have been announced by Ernest G. Brown, vice-president and general manager of the mechanical goods, general products, Lastex yarn and rubber thread divisions.

F. K. Krell has been promoted to manager of sales, welding fittings, of the Globe Steel Tubes Company, and John F. Scott has been promoted to manager of sales, stainless and alloy tubing. John Koss, formerly in charge of export sales, has been appointed sales representative, Chicago district, and J. J. Lukens, form-



F. K. Krell

erly head of the pricing division, has been appointed sales representative, New

Mr. Krell joined the company's general sales staff in 1942 and was appointed advertising manager two years later. In 1946 he was made sales service supervisor and in 1947 he was appointed Chi-



John F. Scott

cago district sales representative, which position he held until his recent promotion. Mr. Scott joined Globe Steel Tubes in 1940 as a metallurgist and was later transferred to the general sales office as a chemical and metallurgical sales representative. Early in 1947 he was appointed sales representative for the New York district, retaining this position until his recent promotion.

William Van C. Brandt has been appointed managing director of the Electric Industrial Truck Association, effective July 1. Mr. Brandt has resigned as manager of railway and motive power sales for the Electric Storage Battery Company to accept the new post. He succeeds C. F. Kells, who has joined a publishing firm. Succeeding Mr. Brandt as vice-president of the association is M. W. Heinritz, vice-president of the Gould Storage Battery Corporation.

The O. K. Company, 80 Jackson boulevard, Chicago, has been appointed representative for the Morton Manufacturing Company, 5195 West Lake Street, Chicago. Associated with O. K. are Tom King, president; Karl V. Graff, vice-president, and Mal Cone, salesman.

John A. Carter has been elected president of Oakite Products, Inc., to succeed D. C. Ball, who was elected chairman of the board. David S. Ball, formerly vice-president, was elected to the newly created position of first vice-president. The new president has been associated with the company for 34 years, serving in re-



John A. Carter

cent years as assistant to the president and, since December, 1947, as general manager. "We plan to continue our expansion program," Mr. Carter said, "so that we may be able to provide even greater service in the constantly broadening field of production and maintenance cleaning."

Railroad Supply & Equipment, Inc., a newly formed company, with offices at 148 Adams avenue, Scranton, Pa., has announced that it is the sole distributor to the railroads of the United States of the Amesteam generator, a product of the Ames Iron Works, Oswego, N. Y. The new company is qualified to assist in the engineering and design of boiler rooms for the steam generator, and to supervise installation and maintenance of

the unit. Officers of the company are Arthur R. Frampton and Edmund J. Heberger.

The Athey Products Corporation, Chicago, has appointed Reid Eyans as its district representative for the north central area, with headquarters at Urbana, Ill., and Marvin B. Stanley as sales and service representative for the southwest territory, with headquarters at San Leandro, Cal. Mr. Evans was formerly branch manager of the Ohio Machinery Company at Toledo, Ohio, and Mr. Stanley was formerly service representative for Athey on the Pacific Coast.

Three staff appointments in the locomotive and car equipment divisions of the General Electric Company have been announced. H. O. Trumpfheller, formerly assistant to the manager of manufacturing, has been appointed manager of manufacturing; David Blair, formerly production manager, has become assistant to the manager in charge of procedures; and C. E. Shank, formerly assistant production manager, has been named production manager. Also, Harold E. Strang, engineering manager of the affiliated manufacturing companies department, has been appointed manager of the G.E. apparatus department's meter and instrument divisions at Lynn, Mass., to succeed Nicholas M. DuChemin, who has been named an assistant general manager of the apparatus department, as has John W. Belanger, manager of the turbine divisions at Schenectady, N. Y. Messrs. Belanger and DuChemin will assist in directing operations of the department's product divisions, works service divisions and various works. The marketing activities of the apparatus department will continue to function under the direction of Chester H. Long, G. E. vice-president in charge of apparatus department sales.

#### OBITUARY

James S. Hearons, sales manager, railway division, of the Clark Equipment Company, with headquarters at Chicago, died on June 12, after a heart attack.

John Pressley Coleman, retired consulting engineer of the Union Switch & Signal Co., died recently in Pittsburgh, Pa. He was 83 years old.

## **EQUIPMENT AND SUPPLIES**

#### SPECIAL

The Union Pacific has ordered two large rotary snow plows from the Lima-Hamilton Corporation.

#### **ABANDONMENTS**

Division 4 of the Interstate Commerce Commission has authorized:

Western Pacific.—To abandon a portion of its Carbona branch, approximately 2 mi., in San Joaquin county, Cal.

#### CONSTRUCTION

Atchison, Topeka & Santa Fe.—This road has awarded contracts to List & Clark Construction Co., Kansas City, Mo., for grading and culvert work in connection with relocation of two segments of line between Elmer, Mo., and Hart, and to Fitz Simons and the Connell Dredge & Dock Co., Chicago, for repairs to approximately 700 lineal ft. of dock at Auction House slip, Chicago Produce Terminal.

Lake Terminal.—The Rust Engineering Company, Pittsburgh, Pa., recently completed for this road a Diesel locomotive maintenance shop, designed primarily for servicing and maintaining switching locomotives, at Lorain, Ohio. The shop covers an area 82 ft. wide and 154 ft. long and is equipped to handle all phases of repair, including the replacement of entire power units.

Louisville & Nashville.—This road has authorized the following projects to be completed by company forces, at the indicated estimated costs: Replace 108 ft. of timber trestle with one 40-ft. and one 75-ft. deck girder spans on concrete pier abutments, at bridge No. 5, Woodward creek, Eastern Kentucky division (\$48,000); replace three 30-ft. deck girder spans with one 60-ft. deck girder span and 30 ft. of timber trestle, at bridge No. 27, Yellow creek, Cumberland Valley division (\$35,600); replace 104-ft. deck truss span, two masonry piers and 180 ft. of timber trestle, with three 75-ft. and one 40-ft. deck girder spans on three concrete piers and two concrete pier abutments, at bridge No. 51, Shools creek, Birmingham division (\$112,500); and rearrange tracks at north end of South Louisville (Ky.) (\$43,000). The L. & N. has awarded a contract to the Codell Construction Company, Winchester, Ky., for grading in connection with the construction of yard and mechanical facilities for handling freight traffic at Dent, Ky. (see Railway Age of December 18, 1948, page 72). A grading and drainage contract has been awarded to the Badgett Mine Stripping Corporation, Madisonville, Ky., in connection with spur track construction to serve the Miners Coal Company at Fies, Ky. (See Railway Age of March 5, 1949, page 68).

Texas & New Orleans.—Upon the motion of this road, the Interstate Commerce Commission has dismissed its application for authority to construct an 0.8-mile industrial spur in the Houston, Tex., switching district.

# **ORGANIZATIONS**

The Traffic Club of St. Louis, Mo., has elected the following new officers: President, Paul C. Creal, traffic manager, Chevrolet Motors Company; first vicepresident, James J. Gleason, district freight agent, Louisville & Nashville; second vice-president, Vernon R. Hudder, traffic manager, Lincoln Engineering Company; third vice-president, James D. Logan, general freight agent, Acme Fast Freight Lines; fourth vice-president, Wil J. Edmonds, general traffic manager, Granite City Steel Company; fifth vicepresident, John J. Burke, president, Middlewest Freightways, Inc.; and secretarytreasurer, A. J. Koke, Jr., traffic manager, A. Leschen & Sons Rope Co.

&

y, in

gıd

ne-

The Great Lakes Regional Advisory Board will hold its next quarterly meeting in the Hotel Commodore Perry, Toledo, Ohio, on June 28 and 29. Arthur H. Gass, chairman, Car Service Division, Association of American Railroads, and H. E. Stringer, assistant to the chairman, will be the chief speakers at the joint meeting of the board's executive and contact committees on June 29.

In connection with its National Cooperative Project, the Transportation Association of America has scheduled meetings at the St. Francis Hotel, San Francisco, Cal., on July 21, for organization of its Northern California-Nevada regional forum, and at the Biltmore Hotel, Los Angeles, Cal., on July 27, for organization of its Southern California-Arizona regional forum. Clarence F. Lea, former chairman of the committee on interstate and foreign commerce of the House of Representatives, and now director of governmental relations for the association, will speak at both meetings, as will Donald D. Conn, executive vice-president of the association.

The next meeting of the New York division of Railroad Enthusiasts will begin at 7:45 p.m. on June 22 in room 5928, Grand Central Terminal, New York. Kenneth Cartwright, chief mechanical engineer of the New York, New Haven & Hartford, will discuss "What Makes a Passenger Train Ride Smoothly?" The General Electric Company's mction picture, "Railroadin' on the Maybrook," will be shown.

The 380th meeting of the Pacific Railway Club was held on June 9 at the Alexandria Hotel, Los Angeles, Cal. H. L. Hamilton, vice-president, General Motors Corporation, spoke on "The Development of the Diesel Locomotive" and W. P.

Hartman, mechanical superintendent, Atchison, Topeka & Santa Fe, gave a talk on "Introducing Steam Personnel to the Diesel Locomotive."

The Pacific Northwest Advisory Board will hold its seventy-fourth regular meeting on June 24, at the Winthrop Hotel, Tacoma, Wash.

# FINANCIAL

Alleghany Corporation.—Reduces C. & O. Holdings .- The Alleghany Corporation has announced that its recent offer to exchange some of its holdings of Chesapeake & Ohio common stock for a portion of its own outstanding prior preferred and series A preferred shares reduced the holdings of C. & O. common, which before the exchange had totaled 601,000 shares, by about 70,000 shares. The rate of exchange was 21/4 C. & O. common shares for one Alleghany prior preferred share and 11/2 C. & O. common shares for one Alleghany series A preferred share (see Railway Age of May 7, page 66).

Atlantic & Danville.—Trackage Rights. This road has filed with the Interstate Commerce Commission two applications for approval of trackage-rights and terminal-use agreements contemplated by its plan to revert to independent operation on July 1, when the present lease of its properties to the Southern expires (see Railway Age of April 9, page 72). One of the applications seeks approval of a contract covering joint use of the Pinners Point, Va., terminals and facilities of the Atlantic Coast Line and of the latter's tracks extending from such terminals to a connection with the A. & D. at Boone, Va., 7.8 mi. Under this agreement, the A. & D. would pay the A.C.L. \$4 for each car (including locomotives and cabooses) using the facilities, the minimum annual total to be \$75,000. The other application seeks approval of a trackage-rights agreement covering joint use of the Richmond & Mecklenburg's 1.8-mi. line between Jeffress, Va., and Clarksville Junction. Under this agreement, the A. & D. would pay, in monthly installments, an annual rental equal to one-half of 4 per cent on the valuation of the R. & M. lines involved, plus a proportionate share (based on car and engine miles) of the maintenance and operating expenses, taxes, and insurance. The commission has assigned the applications for hearing before Examiner C. A. Bernhard at Washington, D. C., on June 23.

Central of New Jersey.—Reorganization.—Division 4 of the Interstate Commerce Commission has fixed maximum limits of final allowances for services rendered and expenses incurred in con-

nection with this road's reorganization proceeding, by parties in interest and their counsel, during the period, generally, from October 30, 1939, through July 14, 1948. The division allowed a total of \$445,959.20 on claims totaling \$639,068.76. The largest cut was applied to the claims of the so-called Watters bondholders' committee and its counsel, that group having been allowed \$72,-074.76 on claims totaling \$152,701.96. The largest allowance was made to the so-called institutional group of bondholders, its counsel, and experts who got \$228,705.37 on claims totaling \$256,016.-37. The former figure included \$150,000 allowed to the group's counsel, Oliver & Donnally, on a claim of \$175,000, and an allowance of \$45,574.52, the amount claimed, to William Wyer & Company, "experts" retained by the group. The debtor corporation, its counsel, and consultants got \$75,134.75 on claims totaling \$90,134.75. The former figure included \$52,879.30, the amount claimed, which was allowed to Coverdale & Colpitts, consulting engineers. The so-called Brooks bondholders' committee and its counsel got \$28,338.95 on claims totaling \$43,936.45; but Javits & Javits, counsel for another bondholders' committee which was headed by Emanuel M. Cohan was allowed nothing on a claim of \$10,034.84. The division found that most of this firm's services were not related to the proceeding under Section 77 of the Bankruptcy Act, but were rendered in connection with the C.N.J.'s undertaking to effect a voluntary modification of its securities and thus avoid going through with the bankruptcy proceeding. The voluntary-revamp proposal is the subject matter of a pending proceeding under section 20b of the Interstate Commerce Act (the so-called Mahaffie Act), and the division said that section "contains no provision for payment of fees and expenses of any of the parties" in a proceeding under it.

Springfield Terminal.—Purchase of Lessor's Property.-Division 4 of the Interstate Commerce Commission has authorized this road to purchase the property and franchises of its lessor, the Springfield Electric. The latter's line, 1.5 mi. in length, extends from the eastern end of a Connecticut river bridge to a connection with the Boston & Maine in Charlestown, N. H., thus forming part of the S.T.'s 6.5-mi, line between that point and Springfield, Vt. The S.T. owns all of the S.E.'s capital stock, and the purchase agreement provides that the former will receive the latter's properties and franchises in return for surrender of the stock and assumption of all S.E. liabilities and obligations.

# **New Securities**

Division 4 of the Interstate Commerce Commission has authorized:

Northern Pacific.—To assume liability for \$6,450,000 of equipment trust certificates to finance in part the acquisition

of 1,200 freight cars and 4 4,500-hp. Diesel-electric passenger locomotives at a rotal estimated cost of \$8,176,000 (see Railway Age of May 21, page 196). The certificates will be dated June 15 and will mature in 15 annual installments of \$430,000 each, beginning June 15, 1950. The commission's report approved a selling price of 99.1299 with a 2% per cent interest rate—the bid of Halsey, Stuart Co., Inc., and associates, which will make the average annual interest cost approximately 2.52 per cent. The certificates were reoffered to the public at prices yielding from 1.4 to 2.675 per cent according to maturity.

# **Average Prices Stocks & Bonds**

					June 14	Last	
Average	price	of	20	repre-			
sentati	ve rails	way	stocks		35.47	36.54	54.61
Average							
sentati	ve rails	way	bonds	*******	83.49	84.28	90.35

### **Dividends Declared**

Canada Southern.—\$1.50 (payable in Canadian funds), semiannual, payable August 1 to holders of record June 22.
Elmira & Williamsport.—7% preferred, \$1.65, semiannual, payable July 1 to holders of record June 20.
Mahoning Coal.—common. \$12.50.

une 20.

Mahoning Coal.—common, \$12.50; 5% preerred, \$1.25, semiannual, both payable July 1 to
olders of record June 20.

Nashville & Decatur.—7½% guaranteed, 93¾¢,
emiannual, payable July 1 to holders of record

June 20.

New York & Harlem.—10% preferred, \$2.50, semiannual, payable July 1 to holders of record

semianuai, payable July 1 to holders of record June 10.

Norwich & Worcester.—8% preferred, \$2, quarterly, payable July 1 to holders of record June 15.

Pictmont & Northern.—75¢, quarterly, payable July 20 to holders of record July 5.

Pittsfield & North Adams.—\$2.50, semiannual, payable July 1 to holders of record June 16.

Providence & Worcester.—\$2.50, payable July 1 to holders of record June 13.

Savannah & Atlanta.—5% preferred, \$1.25, quarterly, payable July 1 to holders of record June 8.

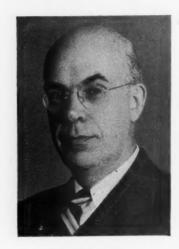
Seaboard Air Line.—common voting trust certificates, 50¢ (irregular), payable June 30 to holders of record June 17; 25¢, payable September 30 to holders of record September 9; 25¢, payable December 31 to holders of record December 9.

# RAILWAY OFFICERS

### EXECUTIVE

Mrs. A. E. Stevenson, assistant to vicepresident-public relations of the Chesapeake & Ohio at Cleveland, Ohio, has been transferred to New York. Howard Skidmore, executive assistant to vicepresident-public relations, has been transferred from New York to Cleveland.

Harold R. German, vice-presidentnance and accounting, of the Lehigh Valley, with headquarters at New York and Bethlehem, Pa., has retired, in accordance with the company's pension rules. Mr. German was born at New Hartford, N. Y., and attended the Utica, N. Y., School of Commerce; Coleman Business School, Newark, N. J.; and the New York University School of Commerce, Finance & Accounting. He entered railroad service in 1907 as a stenographer with the Delaware, Lackawanna & Western, and served successively as secretary to the vice-president and chief clerk to vice-president. In 1917 Mr. German went with the Lehigh Valley as chief clerk to the president, becoming assistant secretary and chief clerk to president in 1918



Harold R. German

and assistant to president in 1929. He was appointed secretary and treasurer of the L.V. in 1935, and 10 years later he became vice-president-finance and accounting.

Harold J. Hoglund, whose promotion to assistant vice-president of the Chicago, Burlington & Quincy at Chicago, was reported in the Railway Age of June 11, was born on July 25, 1889, at Burlington, Iowa, and received his education at business college and correspondence schools. He entered railroad service with the Burlington in 1904, serving in various clerical positions in his home town and at Lincoln, Neb., Wymore and Omaha until 1917. He later held the positions of trainmaster and superintendent at Wymore, Neb., Lincoln, Ottumwa, Iowa and Alliance, Neb., becoming assistant to general manager at Omaha in 1928. After serving in the latter capacity at Chicago also, he was appointed staff officer to the vice-president, operating department, at that point, and was advanced to assistant to executive vice-president in charge of labor relations there in 1935. Mr. Hoglund became a carrier member, First Division. National Railroad Adjustment Board, in 1946 and continued with that agency until his recent promotion to assistant vice-president of the Burlington.

Morris Cohon has been elected president of the Hudson & Manhattan, succeeding Henry E. Peelle, who has been elected vice-chairman of the board. John S. Kroese was elected first vice-president, succeeding Charles Passannante; Walter L. Drill was elected executive vice-president and secretary, and James J. Crisona was elected special counsel. Mr. Peelle succeeds Mr. Kroese as chairman of the executive committee, with John Campbell as vice-chairman, and Jack Marqusee was named chairman of the finance committee. The resignation of Paul deGategno as a board member and as second vicepresident of the company was accepted at a meeting of the board of directors on June 14. Mr. Drill succeeds Mr. deGategno as a director.

Charles J. Sayles, executive assistant to the vice-president-traffic of the Wabash, at St. Louis, Mo., will retire on June 30, after 50 years of railroad service. A photograph and biographical sketch of Mr. Sayles appeared in the Railway Age of March 5, in connection with his appointment to his present post.

Karl Fischer, vice-president, executive department, of the Chicago, Burlington & Quincy, at Chicago, has retired after 40 years of service. Mr. Fischer was born at Quincy, Ill., on June 18, 1883, and entered railroad service with the Burlington in June, 1909, as a timekeeper. He served in various minor capacities until 1918, when he was appointed assistant trainmaster at Billings, Mont.; in June, 1919, he became assistant trainmaster at Casper, Wyo. The following October he was promoted to trainmaster at Lincoln, Neb., and two years later was appointed transportation inspector on the staff of the superintendent of transportation at Chicago, being transferred to Omaha, Neb., in 1924, as inspector of transportation on the general manager's staff. From



Karl Fischer

1925 to 1929 he served as assistant superintendent, at Daytons Bluff, Minn., and subsequently became superintendent at Creston, Iowa, returning to Omaha in 1931 as assistant superintendent. After serving almost a year as superintendent of the relief and employment department, and chairman of the pension board at Chicago, he was appointed land and tax commissioner in May, 1935. In June, 1940, Mr. Fischer was granted a leave of absence for special government service at Washington, D. C., and in January, 1942, returned to Chicago as assistant to the president. He was elected vicepresident, executive department, in May, 1947, which post he held at the time of his retirement.

# FINANCIAL, LEGAL & ACCOUNTING

David O. Mathews, whose appointment as general counsel of the Chicago & Eastern Illinois, at Chicago, was reported in Railway Age of May 28, was born in Nebraska, attended schools in that state, and received his law degree from the University of Nebraska. From

n

of

&

40

at

n-

g. Ie

til

nt

e,

at

1e

n,

ed

of

n



David O. Mathews

1925 to 1941 he practiced law at Omaha, Neb., and he spent one year as an attorney with the Interstate Commerce Commission. Mr. Mathews joined the Office of Defense Transportation in 1942 and became special assistant to the United States attorney general at Washington, D. C., in 1944, which post he held until his recent appointment.

R. S. Stephenson, whose election as comptroller of the Chicago, Milwaukee, St. Paul & Pacific, at Chicago, was reported in the *Railway Age* of June 4,



R. S. Stephenson

was born at Oelwein, Iowa, on December 22, 1894, and entered railroad service in July, 1912, as a timekeeper on the Oelwein Terminal division of the Chicago Great Western. He held various clerical positions until July, 1915, when he was appointed chief accountant at the Oelwein shops. During World War I,

he served in the United States Army, being honorably discharged in May, 1919, as first sergeant, 13th Engineers (Railway). Mr. Stephenson subsequently returned to the Great Western as traveling accountant, becoming statistician in the general accounting office in 1923. While holding the latter post he studied accounting and related subjects at Northwestern University, and in 1929 was transferred to the president's office as chief statistician. He joined the Milwaukee as special accountant, finance and accounting department, in 1935, and was later advanced to statistician, assisting in reorganization matters and conducting special cost and other studies. Mr. Stephenson rejoined the Great Western as comptroller at Chicago in 1942, and became assistant comptroller of the Milwaukee in February, 1945, the position he held until his recent election as comptroller.

William Kruckstein, whose appointment as general auditor of the Chicago, Milwaukee, St. Paul & Pacific at Chicago, was reported in the Railway Age of June 4, was born at Chicago on August 19, 1885, and entered railroad service in May, 1903, with the Milwaukee. He subsequently held a number of different



William Kruckstein

positions until August, 1920, when he was appointed ticket auditor at Chicago. In July, 1941, he was advanced to auditor of passenger and station accounts at that point, and, in October, 1944, became assistant comptroller. Mr. Kruckstein held the latter position until his new appointment.

# OPERATING

- P. R. Cordic, road foreman of engines of the Baltimore & Ohio at Connellsville, Pa., has been appointed supervisor locomotive operation, with headquarters at Pittsburgh, Pa., succeeding J. A. Garlitz, deceased.
- R. A. Cathey, superintendent of the Chattanooga Traction Company (Southern subsidiary) at Chattanooga, Tenn., has been appointed superintendent of the

High Point, Randleman, Asheboro and Southern and the Yadkin (also Southern subsidiaries), with headquarters at Salisbury, N. C., succeeding S. M. Percival, who has resigned to become chief engineer and superintendent of the Atlantic & Danville.

C. W. Veale, whose appointment as superintendent of the Waycross district of the Atlantic Coast Line at Waycross, Ga., was reported in Railway Age of May 28, was born at Union Star, Mo., where he was graduated from the local schools. Mr. Veale entered railroad service with the Atlantic Coast Line as a



C. W. Veale

telegrapher at Waycross on November 22, 1925, and was appointed train dispatcher on May 10, 1926; night chief dispatcher on January 16, 1938; trainmaster on July 31, 1942; acting superintendent of the Ocala district on April 1, 1948; and acting superintendent of the Waycross district on June 16, 1948.

# TRAFFIC

Frederick B. Lunt, supervisor of highway and dining car operations of the Bangor & Aroostook, has been appointed assistant to the passenger traffic manager, with headquarters at Bangor, Me.

J. W. Hailey, assistant general freight agent of the Missouri Pacific Lines, at New Orleans, La., has retired after more than 44 years of service with the M. P.

G. A. Doniels, assistant to traffic manager of the Union Pacific, at Salt Lake City, Utah, has been appointed assistant general freight agent, with the same headquarters.

H. T. Harlow, general passenger agent of the Erie at Chicago, has retired after 45 years of service, and his duties have been assumed by A. G. Oldenquist, assistant general passenger agent at Chicago.

Wilson E. Pry, district freight agent of the Pennsylvania at Nashville, Tenn., has been promoted to district coal agent at Buffalo, N. Y. Robert S. Vipond, special representative to the western freight traffic manager at Chicago, has been appointed district freight agent at Nashville.

Erwin Thomas has been appointed assistant industrial commissioner of the Chesapeake & Ohio and V. D. Moore and G. D. Moffett, Jr., have been appointed industrial agents, all at Huntington, W. Va. Harry B. May has been appointed assistant industrial commissioner and T. L. Diak, industrial agent, both at Detroit, Mich.

### MECHANICAL

W. E. Knecht, traveling engineer of the Litchfield & Madison, has been promoted to master mechanic in charge of locomotive and car departments, system.

E. L. Spicer, master mechanic of the Atlantic Coast Line, has been appointed shop superintendent, with headquarters as before at Waycross, Ga. W. R. Witherspoon, master mechanic at High Springs, Fla., has been transferred to Waycross. L. H. Cooper, master mechanic at Rocky Mount, N. C., has been appointed shop superintendent, with the same headquarters. R. L. Ponton, general foreman at Jacksonville, Fla., has been appointed master mechanic at Rocky Mount.

Harvey C. Griffith, whose appointment as chief electrical engineer of the Pennsylvania, at Philadelphia, Pa., was reported in the Railway Age of May 7, was born at New Enterprise, Pa., on June 17, 1890, and received his electrical engineering degree from Lehigh University in 1914. Mr. Griffith entered railroad service in February, 1915, as draftsman with the Penn-



Harvey C. Griffith

sylvania and was appointed inspector in November, 1917; foreman in November, 1919; assistant engineer in May, 1927; assistant electrical engineer in May, 1929; electrical engineer in July, 1935; and assistant chief engineer, traction—communications—signals in January, 1945. Mr. Griffith held the latter position until his recent appointment as chief electrical engineer.

## PURCHASES & STORES

Alva G. Denham, whose promotion to general storekeeper of the St. Louis-San Francisco at Springfield, Mo., was reported in the Railway Age of May 28, was born in that city on November 1, 1892, and was educated in the local public schools and at Fort Scott, Kan. He entered railroad service with the Frisco in May, 1913, as a stock clerk, and in 1917 joined the armed forces. Three years later he became storekeeper at Joplin, Mo., and was subsequently advanced to division storekeeper at Fort Smith, Ark., returning to his native city in 1925 as chief clerk to the general storekeeper. After serving as assistant general storekeeper at Springfield from July, 1941, to August, 1946, Mr. Denham was appointed assistant general purchasing agent at St. Louis, Mo., the post he held at the time of his promotion.

# ENGINEERING & SIGNALING

B. H. Prater, whose retirement as engineering consultant of the Union Pacific at Omaha, Neb., was reported in the Railway Age of June 11, was born on November 11, 1881, at Bingham, Ill., and was graduated from the University of Illinois as a civil engineer in 1903. He subsequently served as track appren-



B. H. Prater

tice with the Illinois Central, in the shops of the Illinois Steel Company, as clerk for the American Bridge Company, instructor at the University of Illinois and transitman at the Panama Canal. In May, 1906, he joined the U. P. as draftsman in the engineering department at Omaha, and held the position of engineer—maintenance of way at Pocatello, Idaho, from 1919 to 1925, when he became assistant engineer at Salt Lake City, Utah. Mr. Prater was appointed district engineer in Salt Lake City in 1936 and promoted to chief engineer at

Omaha in January, 1937. In 1947 he became engineering consultant, holding that position until his retirement.

### OBITUARY

W. D. Wiggins, retired vice-president—engineering of the Pennsylvania, died on June 12 at Bryn Mawr., Pa., hospital, after an illness of several weeks. He was 76 years of age and had retired in April, 1943, after a career of 48 years.

P. S. Bazler, assistant engineer, office of chief engineer, maintenance of way, western region, of the Pennsylvania, died recently.

C. R. Swenson, late signal engineer of the Chicago, Rock Island & Pacific at Chicago, whose death was reported in the Railway Age of June 11, was born on June 3, 1898, at Kasota, Minn., and was graduated from the University of Minnesota's Institute of Technology. In 1922 he entered railroad service with the Great Northern as a signal helper, and served as maintainer and on construction work, later being promoted to foreman of signal construction. He joined the



C. R. Swenson

Pennsylvania in 1926, and subsequently served as assistant foreman, foreman and in various other capacities, including inspector of signal tests. In May, 1940, he was appointed supervisor of telegraph and signals on the Pennsylvania-Reading Seashore Lines and the Atlantic division of the Pennsylvania, becoming special representative, operating department, of the Rock Island in September, 1942. Mr. Swenson was promoted to signal engineer at Chicago in the following October, which position he held until his death.

R. W. Mabe, assistant chief engineer of the Nashville, Chattanooga & St. Louis, with headquarters at Nashville, Tenn., was killed on June 10 when his light plane crashed in Kentucky. A photo and a biographical sketch of Mr. Mabe appeared in the Railway Age of November 13, 1948, in connection with his promotion to the position of assistant chief engineer.

	2,500,000
	2. 2. 43. 36. 379. 379. 379. 379. 379. 379. 379. 379
	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
y ome 1948 68,934	1.05
W.U.	11. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
1	13.22.22.2 13.22.22.2 13.22.22.2 13.22.22.2 10.00.00.00.00.00.00.00.00.00.00.00.00.0
Railway tax accruals	1.050 1.050
	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Net from railway	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	289.6.6. 4.39.7. 1.19.4. 4.39.7. 1.19.6. 1.
10.3	121.508 1.1.27 1.1.27 1.1.27 1.1.27 1.1.27 1.1.27 1.1.29 1.1.006 1.1.006 1.1.58 1.1
VAYS EAR 1949	118 118 118 118 118 118 118 118 118 118
OF RAILWAYS CALENDAR YEAR 1949	26.828 14.17 14.17 15.0 16.835.0 16.835.0 17.7
OF RA	10. Operating Pay 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
, S	113. 2.65. 3.1 1. 2.65. 3.25.
KPENSE	11.179 2.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8
EXP	ND FOUR Maintens (Nava and Street Street) (Nava and Street) (Nava
AND	Control   Cont
ES	revenues Total revenu
SEVENUES	Operating revenues (Inc. Passenger (Inc. Passe
3	Passente Pereight Peasente Pereight Passente Pas
dy	Freight 123,932,1123,932,125,125,125,125,125,125,125,125,125,12
nd in- he	17.7.1 (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
aph ling	o o o o o o o o o o o o o o o o o o o
ecial t, of Mr.	April
Mr. engi- ober,	Name of road  Name of road  Name of road  Name of road  On. Topeka & Santa Fe System  April  ta & West Point  April  tharleston & Western Carolina  April  tharleston & Western Carolina  April  thanos  Staten Island Rapid Transit  April  thanos  Staten Island Rapid Transit  April  Central of Georgia  Chicago & Eastern Illinois  Chicago & Eastern Illinois  Chicago & Burlington & Quincy  Chicago Burlington & Quincy  Chicago, Milwaukee, St. Paul & Pacific  Chicago, Milwaukee, St. Paul & Pacific  Chicago, Milwaukee, St. Paul & Pacific  Chicago, Rock Island & Pacific  Chicago, St. Paul, Minn. & Omaha  Et. Worth & Deaver City
gineer	Akron, Canton & Youngstown Attenison, Topeka & Santa Fe System Atlanta & St. Andrews Bay  Atlanta & West Point.  Atlantic Coast Line Charleston & Western Carolina Charleston & Western Carolina Charleston & Maine  Bangor & Aroostook  Bangor & Aroostook  Bangor & Aroostook  Barington-Rock Island  Canadian Pacific Lines in Western Central of New Jersey  Central of Pennsylvania  Chicago & Eastern Illinois Chicago & Burlington & Q  Chicago, Burlington & Chicago, Burlington & Chicago, Burlington & Chicago, Rock Island Chicago, St. Paul, Mir Chicago, St. Paul, Mir Chicago, St. Paul, Mir Chicago & Southern  Clinchfield  Clinchfield  Chicago, St. Paul, Mir Fr. Worth & Deny Fr. Worth & Deny
& St.	Name of road  Akron, Canton & Youngstown  Atlanta & St. Andrews Bay  Atlanta & West Point  Western of Alabama  Western of Alabama  Western of Alabama  Baltimore & Ohio  Bassemer & Lake Eric  Bassemer & Lake Eric  Bangor & Aroostook  Bangor & Aroostook  Bangor & Aroostook  Canadian Pacific Lines  Cantral of Georgia  Central of Georgia  Central of Pennsylvar  Central of Pennsylvar  Chicago & Eastern I  Chicago & Eastern I  Chicago & Burlingto  Chicago, Burlingto  Chicago, Burlingto  Chicago, Burlingto  Chicago, Rock I  Chicago, Rock I  Chicago, Rock Battingto  Chicago, St. Pa
en his A pho- of Mr.	Name of roe  Name of roe  ron, Canton & Youngs  chison, Topeka & Sant  tlanta & St. Andrews  Itlanta & West Point.  Western of Alabama  Western of Alabama  Western of Alabama  Rapinore & Ohio  Baltimore & Ohio  Basten Island Rapi  Staten Island Rapi  Basten & Lake E  Boston & Maine  Boston & Maine  Boston & Maine  Canadian Pacific  Canadian Pacific  Canadian Pacific  Central of Pen  Central of Pen  Chicago & E  Chicago & E  Chicago & B  Chicago, B  Chicago, B  Chicago, B  Chicago,
Age of n with	Atlanta West Atlanta Basti Bos Bos Bos Co
ssistant	Vol. 126 No. 25

Railway Age-Vol. 126 No. 25

8, 1949

# **REVENUES AND EXPENSES OF RAILWAYS**

MONTH OF APRIL AND FOUR MONTHS OF CALENDAR YEAR 1949

	Av. mileage						Operating Expenses	86			Net		Net railway	ву
Name of road	operated		Operating revenu	Total	Way and Equi	nance of Equip-		Trans-	_	Operating		Railway	operating income	псоте
Colorado & Wyoming April 4 mos. Columbus & Greenville April Delaware & Hudson April 4 mos.	period 41 41 168 168 794	Freight 155,313 582,763 148,377 618,446 4,151,890 15,981,432	Passenger 6 154,533 706,395	(inc. misc.) 244,320 948,203 154,740 643,987 4,417,533 17,114,415	structures 11,824 47,114 29,712 137,066 642,572 2,287,357	ment 21,467 94,632 25,995 106,815 982,777 3,926,533	Traffic 1,150 3,670 4,166 17,698 68,319 277,357	portation 81,134 357,089 44,645 179,627 1,760,041 7,128,616	Total 125,309 536,598 120,189 506,617 3,637,205 14,330,635		080121	tax accruals 57,653 205,517 21,226 80,255 394,706 1,491,491	1949 60,767 207,311 16,003 68,407 331,978	1948 45,826 204,863 45,428 102,293 480,466
Delaware, Lackawanna & Western April Denver & Rio Grande Western April Thosa Detroit & Mackinac April Thosa	2,440 232 232 232	5,787,234 21,888,359 4,718,054 20,380,630 135,525 532,733	803,541 3,273,986 261,590 991,275 865 3,342	7,100,896 27,204,239 5,200,770 22,453,742 145,650 577,545	1,081,983 3,595,643 830,245 2,673,290 31,500 126,000	1,240,276 5,021,220 1,028,482 4,219,349 24,686 99,039	142,246 598,892 161,016 616,832 2,416 7,920	3,173,109 12,560,237 1,811,255 8,258,440 33,929 137,012	5,878,770 22,722,102 4,104,797 16,859,004 100,163 401,103	82.8 83.5 778.9 68.8 69.4	1,222,126 4,482,137 1,095,973 5,594,738 45,487 176,442	634,637 2,420,985 530,827 2,515,576 19,449 73,439	560,723 1,964,193 625,697 3,008,954 26,673 108,000	820,733 2,427,608 755,430 3,591,266 39,778
Detroit & Toledo Shore LineApril Detroit, Toledo & IrontonApril The Missabe & Iron Range Thos.  The Missabe & Iron Range Thos.  The Missabe & Iron Range Thos.	50 50 464 464 575 575	548,090 2.335,654 1,279,092 5,848,601 4,530,360 5,773,634	2,283 1,907 7,121	550,207 2,346,521 1,324,309 6,022,112 5,278,546 6,704,036	55,676 172,590 157,465 633,336 532,396 2,383,626	43,596 180,434 239,630 918,928 538,455 2,002,478	12,362 52,252 26,658 101,178 8,598 32,396	159,764 677,997 350,103 1,433,469 1,388,985 2,946,913	282,358 1,131,477 815,129 3,240,250 2,530,169 7,613,777	51.3 48.2 61.6 53.8 47.9	267,849 1,215,044 509,180 2,781,862 2,748,377 —909,741	85,709 391,191 208,547 1,105,807 353,995 611,959	102,063 467,051 243,502 1,451,107 2,384,030 1,594,609	76,484 399,582 87,573 1,052,904 1,758,905
Duluth, Winnipeg & Pacific April Elgin, Joliet & Eastern April Trie April Erie April Mos.	175 175 238 2,236 2,230	221,000 1,119,000 3,462,988 13,689,790 11,167,717 44,919,784	2,400 5,800 11 603,459 2,398,197	225,800 1,137,800 4,093,814 16,276,549 12,613,910 50,404,271	89,120 260,358 289,345 995,953 1,895,387 6,086,674	49,295 198,798 597,206 2,366,022 2,360,820 9,464,468	4,306 16,895 29,197 113,465 322,900 1,266,258	112,892 551,453 1,327,260 5,527,319 5,205,009 21,407,250	261,926 1,051,769 2,359,156 9,448,250 10,422,559 40,751,854	116.0 92.4 57.6 58.0 82.6 80.9	-36,126 86,031 1,734,658 6,828,299 2,191,351 9,652,417	19,184 92,915 636,441 2,545,107 1,087,308 4,571,122	-81,021 -135,908 726,631 2,891,343 844,395 3,905,864	2,564 143,266 391,337 1,744,344 1,355,313 5,366,851
Florida East Coast April Georgia Railroad April Georgia & Florida April A mos.	575 575 326 326 408 408	1,956,789 7,688,933 594,709 2,459,202 220,173 918,474	3,366,539 27,000 129,107 56	2,854,565 12,105,936 666,093 2,757,518 223,449 932,766	401,527 1,512,084 109,391 414,796 60,340 313,819	402,961 1,694,973 99,109 403,025 38,318 143,112	71,314 270,090 28,371 117,967 15,834 62,282	1,034,415 4,308,140 331,556 1,347,934 96,255 406,311	2,107,051 8,610,259 599,886 2,407,186 222,005 972,128	73.8 71.1 90.1 87.3 99.3	3,495,677 66,207 350,332 1,444 -39,362	302,016 1,199,550 34,685 139,085 15,531 64,244	253,986 1,720,737 49,002 281,378 —27,166 —167,361	461,426 1,990,986 113,506 336,389 —44,211 —84,768
Grand Trunk Western April Canadian Natl. Lines in New Eng. April Great Northern April 4 mos.	971 971 172 172 8,318 8,318	3,482,000 13,597,000 120,000 599,000 15 196,142 51 047,058	171,000 697,000 6,500 26,500 886,440 3,333,007	3,945,000 15,398,000 161,000 708,000 17,546,235 59,017,284	2,386,335 54,241 219,423 3,632,673 11,845,576	685,946 2,817,040 40,753 222,030 2,948,845 12,328,007	68,091 255,534 2,863 11,492 380,301 1,408,623	1,759,395 7,119,534 134,116 512,835 6,177,965 25,434,059	3,327,680 13,188,701 244,821 1,012,063 13,776,638 53,478,180	84.4 85.7 152.1 142.9 78.5	617,320 2,209,299 -83,821 -304,063 3,769,597 5,539,104	224,823 952,785 22,576 90,304 1,537,249 5,493,183	283,412 937,757 —135,650 —520,642 2,007,949 -1,180,935	-80,472 117,691 -123,496 -440,349 1,871,237 2,278,104
Green Bay & Western April Gulf, Mobile & Ohio April Illinois Central April 4 mos.	224 2,901 2,901 6,552 6,552	292,589 1,126,922 5,214,019 21,163 612 16,821,861 68,083,470	10 56 424,334 1,783,016 2,046,098 8,000,134	296,573 1,160,122 6,058,071 24,658,045 21,210,932 84,633,392	79,602 250,493 1,124,685 4,312,714 3,832,365 13,546,369	28,223 133,699 1,115,030 4,383,889 3,778,222 14,891,587	18,130 73,460 187,147 892,960 443,555 1,782,448	91,987 383,970 1,921,293 8,178,525 7,730,814 31,921,174	230,210 893,093 4,642,481 19,003,002 16,715,739 65,898,820	77.6 77.0 76.6 77.1 78.8	66,363 267,029 1,415,590 5,655,043 4,495,193 18,734,572	30,914 128,830 576,408 2,300,932 2,437,083 9,803,877	19,843 77,516 541,715 2,215,560 1,968,357 8,150,412	11,350 113,147 659,161 2,224,168 2,154,076 7,601,839
Hilmois Terminal April Amos   Kansas City Southern April Amos   Amos	474 474 891 891 328 328	745,146 3,093,738 3,002,459 12,144,340 439,544 1,899,406	111,323 445,636 91,080 349,243 718 3,013	961,291 3,907,621 3,350,846 13,455,158 444,095 1,917,964	153,889 600,324 300,789 1,165,557 60,060 211,545	140,558 540,051 379,611 1,531,939 32,493 155,376	32,811 145,065 82,390 373,535 14,388 67,671	385,283 1,576,030 988,703 3,827,172 116,807 511,181	750,778 3,034,053 1,883,590 7,425,031 242,498 1,021,932	78.1 77.6 55.2 54.6 53.3	210,513 873,568 1,467,256 6,030,127 201,597 896,032	103,231 437,768 515,000 2,140,000 88,863 388,330	97,465 421,523 760,235 3,162,058 84,077 373,487	170,019 579,189 817,980 3,052,193 88,619 25,644
Lehigh & New England April  Lehigh & New England April  4 mos.	156 156 96 96 191 191	349,057 560,444 252,046 950,624 686,069 2,088,498	179	419,422 652,861 252,658 953,327 692,514 2,112,775	53,779 157,064 31,628 119,010 143,808 434,340	43,514 208,603 38,492 155,319 109,710 442,118	2,103 7,382 9,625 37,076 11,060 44,139	93,058 235,227 99,158 382,630 174,372 661,197	201,769 645,894 189,183 733,110 469,205 1,708,782	48.1 98.9 74.9 76.9 67.8	217,653 6,967 63,475 220,217 223,309 403,993	25,098 96,307 24,973 91,735 109,389 249,976	196,811 -71,802 18,803 50,425 138,855 270,984	163,580 —127,260 38,042 100,219 110,912 382,329
Lehigh Valley April Louisiena & Arkansas 4 mos. Louisville & Nashville 4 mos. 4 mos.	1,252 1,252 756 756 4,775 4 772	5,382,063 20,845,118 1,423,960 5,627,011 13,501,001 54,112,139	338,794 1,352,706 59,401 240,983 1,150,674 4,734,243	6,010,337 23,343,201 1,555,404 6,118,367 15,607,378 62,685,691	843,574 3,106,699 196,634 792,952 2,270,589 9,107,013	1,013,788 3,938,677 196,459 733,728 3,445,485 13,677,248	137,029 560,581 48,857 204,165 298,400 1,206,302	2,504,866 10,464,235 490,334 1,990,116 6,526,312 26,245,952	4,743,583 19,075,617 997,564 3,940,811 13,119,491 52,637,747	78.9 81.7 64.1 64.4 84.1 84.0	1,266,754 4,267,584 557,840 2,177,556 2,487,887	419,916 1,620,764 214,927 841,383 1,647,495 6,605,263	695,305 2,006,113 258,819 1,029,644 1,216,115 5,046,143	509,634 1,281,529 294,589 1,019,478 135,720 4,255,565

is a place

WE FIRMLY BELIEVE that for a long, long time, there will continue to be a demand for steam locomotives.

Therefore, while we are building diesel-electrics for the switching field — and while we have nearly completed experimental work on the free-piston gas generator for locomotive use — we will continue to build a complete line of steam locomotives.

We will continue to explore all possible ways of improving such locomotives. We will continue to build them with the traditional fineness of design and manufacture that is responsible for Lima's world-wide reputation. And we will continue to believe that there is a place for these locomotives — for such modern power as the 2-8-4's we are now building, as our fifth order for the Nickel Plate.





DIVISIONS: Lima, Ohio — Lima Locomotive Works Division; Lima Shovel and Crane Division. Hamilton, Ohio — Hooven, Owens, Rentschler Co.; Niles Tool Works Co. Middletown, Ohio — The United Welding Co.

PRINCIPAL PRODUCTS: Locomotives; Cranes and shovels; Niles heavy machine tools; Hamilton diesel and steam engines; Hamilton heavy metal stamping presses; Hamilton-Kruse automatic can-making machinery; Special heavy machinery; Heavy iron castings; Weldments.

# REVENUES AND EXPENSES OF RAILWAYS

Name of road			111 011 111	The course	LOOK WALL		Descended				Nei		operating income	orne
	-		MOINT		The state of the s	1 4	Operating Expenses		One	Onerating	_	Railway	1040	1948
Name of road	Av. mileage operated	Operati	8	Total	Vay and	nip- ent			Total			-		32,543
Afa'na Central Amos.	period 981 981	2	Passenger (un 126,558 2, 529,199 9		387,228 462 1,362,290 1,752 37,923	,836 ,167 ,466	23,312 78,489 3,783 14,739	3,109,151 6 54,259 217,124	125,136 125,136 473,561	77.5 77.5 74.9 92.1	2,763,339 36,420 158,315 114,350	14,120 81,244 93,493	16,396 43,540 27,178	13,243 76,114 48,283 339,518
	334	617,567	30 8,528		307,752	,038		1	1				1	149,298
Minneapolis & St. Louis 4 mos.	1,421	5,892,701	1		493,588	7,692				82.1 00.6	490,019 -53,832 165,828	1	T	438,895 86,765 178 134
Minn, St. Paul & S. Ste. Marie. April Minn, St. Paul & S. Ste. Marie. April Philate South Shore & Adantic. April	8.8. 222, 422, 422, 430, 630,	2,501,714 8,596,148 535,615 1,730,404	303,786 8,048 36,131	9,487,279 567,644 1,849,175 190,238	2,131,085 2 91,173 386,101 39,295	2,041,002 97,421 396,454 16,480	16,266 73,222 4,023	185,266 836,351 60,508 260,128	401,810 1,736,862 128,554 558,881	93.9 67.6 91.1	112,313 61,684 54,381			13,153
Spokane International A prof.	152	178,544 560,052	5,571	613,262	172,199		1	48,167	150,711 583,997	86.9	22,636 194,356	8,897 81,418 39,377		63,584 81,094
Mississippi Central	148	168,566 759,980 348,297	131 137 128 721	778,353 350,714 1,422,455	201,329 64,959 238,027 631	87,619 47,346 187,469 937,104	200,554 200,554	383,861 2,208,582	218,795 859,619 4,585,906	62.4 60.4 77.2 2.77	562,836 1,399,303 5,740,162	222,002 544,502 2,198,061		305,772 651,310 ,769,403
Missouri-Illinois	3,253	5,160,770	348,879	5,985,209 25,214,436	1	3,622,497	1		12,678,627		3,497,537	1,196,827 1,948,963	468	,165,333 ,078,677
Missouri Pacific			905,808 3,928,609 84,757	16,176,164 66,878,856 3,254,653 13,868,613	2,654,290 9,901,216 603,600 2,466,677	2,907,200 111,689,865 398,860 1,698,249	1,663,454 78,264 320,531 51,324	26,846,511 1,080,462 4,674,562 1,131,720	52,482,349 2,276,865 9,652,351 2,135,201	83.4 83.4	4,216,262 487,894 1,721,890	295,637 1,215,401 109,474 453,080	480,571 2,051,576 230,482 685,318	3,363,008 3,363,008 —110,397 60,277
Gulf Coast Lines 4 mos. April				2,623,095 10,386,288	- 1	1,645,673	1		379,017		382,829	94,543	155,195	204,185
		1	1,024	2,520,057 342,463 984,421	80,445 329,526 19,427 72,476	73,145 275,963 89,506 310,805	3,890 829 3,364	831,409 93,261 321,456 1,111,687	1,462,424 214,569 751,662 2,212,138	58.0 7.62.7 7.6.3	1,057,033 127,894 232,759 685,988	72,018 212,070 328,388 1,235,688	88,556 245,115 340,655 1,135,424	49,243 223,715 294,849 837,516
Montour.		979,028 2,441,244 0,214,275	176,145	2,898,126 11,020,547	- 1	1,384,061	423,977		8,602,209		8,169,094			1,860,966
4		1	9,249,359	60,751,359 239,507,962 4,142,372 15,122,756	8,010,864 30,015,586 490,517 1,728,425	13,466,038 48,632,172 1,071,265 3,940,047	4,056,526 68,720 266,161	110,054,570 1,292,748 5,273,831 2,886,775	205,413,301 3,105,337 11,977,228 5,932,890	85.8 75.0 69.9 69.9	34,094,001 1,037,035 3,145,528 2,560,403 10,145,292	651,465 2,343,575 1,014,155 3,977,257	951,667 3,183,194 1,209,445 4,781,504	584,117 2,494,253 1,033,824 4,631,117
	-			8,493,293 34,265,162		5,463,479	876,620	12,139,358			2,956,494	1,214,000	1,064,260	1,636,775
New York, Chicago & St. Louis.		7,480,863		12,691,454 50,400,551 237,659	1,851,845 7,178,926 68,980	1,781,486 7,321,255 18,002 102,195	235,449	21,485,353 64,336 239,483 180,478	40,226,738 153,661 607,904 363,840	79.8 64.7 63.7 91.1	10,173,813 83,998 346,856 35,732	4,111,000 61,244 251,721 30,587	47,949 181,751 —45,465 —335,415	124,829 153,982 -151,005 -664,010
4			1,553	399,572 2,044,476		68,041 352,444	120,387		1		83,752			1
New York, Ontario & Western 4 mos.	1		42,270 172,668 474,850	391,014 1,570,757 16,335,913	49,895 192,463 1,995,314 7,605,112	55,105 216,322 3,375,004 12,335,138	25,420 273,499 1,069,369	4,596,520 17,810,161	1,261,989 10,806,710 41,013,731 560,435	80.3 66.2 72.5 76.7	308,768 5,529,203 15,584,426 169,996	2,792,499 8,918,254 96,984	3,376,794 9,594,962 49,806	1,579,764 9,126,806 47,015 190,732
	2,129 8. 2,129 rd 683	52,186,316 701,413	1,922,568 2,215 2,594			1		.			1,729,736		1	
Northern Pacific	6,0		64	6	2,533,228 9,400,670 193,104 728,230	2,536,379 10,024,569 81,372 338,097 4,339	282,858 1,049,272 5,760 18,225 1,609	18,889,941 18,889,941 1,236,123 1,236,123	41,835,952 612,679 2,374,603 50,464	94.4 10012 10022 54.0 57.0	2,496,531 55,898 —4,498 42,945 149,347	4,520,451 37,872 146,111 15,437 58,261	28,388 -306,919 15,086 44,767	1
Northwestern Pacine	April 132 132 mos.		- 1	347,511	- 1	1	1				14,783,042	6,736,613 26,333,304	6,413,662 15,434,610	-2,089,673 347,038 -745,704
	April 10,142 i mos. 10,142 April 376 i mos. 376	2 59,584,241 2 228,504,986 6 1,173,942 6 4,361,401	12,676,901 52,548,012 2,814,621 9,996,906	\$0,020,785 307,947,726 4,185,547 15,111,480	37,109,749 491,438 2,319,913	66,589,160 683,163 3,183,791		9,132,881	3,613,21 15,668,15	_	-556,67	1,847	1	1

# Simplified CONTROL of Steam Locomotives—

As fast and as dependable as the operating principle of the air brake

THE THROTTLE MASTER

Investigate!

A-1907

# AMERICAN THROTTLE COMPANY

60 East 42nd Street, New York 17, N. Y. 122 S. Michigan Avenue, Chicago 3, III.

# REVENUES AND EXPENSES OF RAILWAYS MONTH OF APRIL AND FOUR MONTHS OF CALENDAR YEAR 1949

	Av. mileage operated		Operating revenues	8	Mainten		Operating Expenses	89			Net		Net railway	lway
Name of road Pennsylvania-Reading Seashore Lines April 4 mos. Pittsburg & Shawmut	during period 386 386 97 97 135	Freight 497.5 1,904.7 232.77 722.0 656.4 2,760,94	Passenger 173,357 665,830	Total (inc. misc.) 695,714 2,669,408 233,471 725,885 674,812 2,846,332	Way and E structures 1 231,786 1 7 48,141 118,449 11 145,602 1513,662 5	Equipment 195,738 775,374 43,887 162,072 146,171 541,739	Traffic 10,995 40,776 4,556 115,875 42,909 166,707	Trans- portation 546,959 2,239,624 28,958 214,949 173,985 720,251	Operation of the control of the cont	Operating ratio 150.4 - 150.4 - 75.2 80.4 72.9	railway operation 1.326.370 —1,346.452 180.018 132,549 769,270	Railway tax accruals 88,955 359,104 49,515 66,834 74,035	1949 -520,980 2,153,382 18,681 124,729 106,178 541,719	1948 353,535 1,544,683 9,341 135,699 121,131 555,183
Richmond, Fredericksburg & Potomac. April Rutland. Amos. Rutland. April 4 mos.	1,324 1,325 118 118 407 407	8,958,572 34,599,122 1,289,473 5,160,254 350,065 1,367,255	616,224 2,686,476 2,348,815 25,874 122,598	10,074,085 39,381,492 2,062,531 8,484,149 442,340 1,784,702	1,695,335 6,369,716 415,385 1,411,198 73,762 361,869	1,837,477 7,971,037 296,212 1,367,511 80,458 405,175	128,487 521,950 22,441 88,011 15,569 59,879	3,917,496 16,155,118 925,566 3,741,399 252,081 1,050,990	7,909,828 32,281,700 1,798,195 7,158,698 438,576 1,949,547	78.5 82.0 87.2 84.4 99.1	2,164,257 7,099,792 264,336 1,325,451 3,764 —164,845	1,112,432 3,598,656 144,459 694,596 25,996 121,261	1,090,537 3,174,734 4,018 253,814 —38,770 —357,059	803,070 3,224,027 371,315 988,784 5,222 -82,051
Sacramento Northern	271 271 4,645 4,645 159 159	160,657 585,045 7,313,724 29,522,869 383,854 1,357,152	2,311,522 6,214 47,516	168,567 607,688 8,415,759 34,344,113 414,118 1,479,269	94,692 369,515 1,545,309 5,954,396 52,661 199,714	20,913 83,102 1,555,093 5,988,491 35,849 130,901	1,988 8,280 234,612 968,121 15,558 66,089	53,588 259,254 3,543,498 14,450,475 176,911 650,989	178,424 755,686 7,281,167 28,994,737 291,909 1,089,598	105.8 124.4 86.5 84.4 70.5	9,857 1,134,592 5,349,376 122,209 389,671	13,200 52,170 622,152 2,890,595 32,625 111,962	242,807 520,738 2,490,650 46,579 137,412	-60,609 -223,337 776,645 2,554,495 49,877 114,096
St. Louis Southwestern Lines April Seaboard Air Line	1,569 1,569 4,153 4,153 6,411	4,572,237 19,541,330 9,161,784 36,841,633 15,600,734 61,835,351	60,056 231,584 1,439,405 6,580,873 1,512,311 5,949,797	4,805,936 20,460,482 11,305,805 46,630,421 18,474,820 73,038,722	660,228 2,421,775 1,901,691 7,628,478 2,811,503 11,227,871	674,981 2,737,715 2,005,912 8,219,280 3,399,992 14,185,570	144,068 564,462 334,554 1,315,040 366,761 1,462,189	1,589,194 6,782,270 4,261,811 17,747,463 7,138,938 28,700,755	3,242,270 13,196,331 9,030,794 37,167,420 14,477,342 58,737,395	67.5 64.5 79.9 79.7 78.4 80.4	1,563,666 7,264,151 2,275,011 9,463,001 3,997,478 14,301,327	675,337 2,952,946 1,035,224 4,310,998 1,839,326 6,714,854	673,288 3,398,453 4,118,159 1,806,285 6,400,380	948,936 4,056,429 1,068,310 4,688,529 1,879,890 9,001,617
Alabama Great Southern	316 316 337 337 397 397	1,177,375 4,612,994 3,030,711 11,222,602 526,551 1,972,693	102,843 395,924 242,675 799,037 100,565 360,969	1,385,239 5,404,501 3,446,310 12,696,521 681,206 2,577,531	185,885 836,027 363,816 1,646,090 139,868 567,999	283,159 1,130,501 526,927 2,407,562 65,077 223,949	29,615 120,151 60,743 235,637 7,296 29,462	517,273 1,909,024 998,734 3,894,044 230,029 889,596	1,070,536 4,217,587 2,058,155 8,638,853 458,588 1,782,251	77.3 78.0 59.7 68.0 67.3	314,703 1,186,914 1,388,155 4,057,668 222,618 795,280	201,076 725,103 664,616 2,024,817 60,049	162,852 588,566 785,116 2,265,032 65,859 237,655	175,731 730,077 701,969 2,597,952 13,457 184,470
New Orleans & Northeastern April Southern Pacific 4 mos. Texas & New Orleans	204 8,171 8,172 4,316 4,316	778,145 2,949,857 28,445,664 106,374,635 7,778,166 33,329,726	54,056 229,681 3,145,122 13,294,821 674,789 2,911,525	882,436 3,378,228 33,950,226 129,102,004 9,065,050 38,694,996	193,552 567,421 4,511,070 17,882,395 1,477,034 6,017,207	84,302 353,513 6,820,385 26,922,490 1,424,456 5,808,555	17,456 76,302 769,663 2,884,547 213,535 862,272	192,955 808,228 13,447,588 55,369,233 3,497,217 15,232,119	528,443 1,966,272 27,494,768 110,814,471 7,087,983 29,867,882	59.9 58.2 81.0 85.8 77.2	353,993 1,411,956 6,455,458 18,287,533 1,977,067 8,827,114	167,081 625,402 3,460,396 10,822,451 867,216 3,812,921	148,708 595,318 2,264,792 4,898,102 712,821 3,192,597	164,904 777,252 2,926,882 11,156,559 1,322,930 4,972,221
Spokane, Portland & SeattleApril Tennessee CentralApril Texas & Northern	945 945 286 286 8	1,732,901 6,640,051 346,274 1,451,499 103,015 379,620	67,815 344,697 4,806 11,532	1,913,384 7,430,121 369,325 1,543,540 119,787 441,290	511,185 1,475,695 73,857 259,755 5,249 19,742	223,034 930,573 58,529 219,357 9,089 31,009	22,592 90,076 9,823 39,519 296 1,816	652,474 2,920,619 141,237 655,841 22,608 118,714	1,505,252 5,778,480 303,089 1,245,879 44,406 196,176	78.7 77.8 82.1 80.7 37.11	408,132 1,651,641 66,236 297,661 75,381 245,114	153,148 635,168 26,340 106,446 23,954 81,389	140,751 603,432 22,175 87,350 34,124 114,748	248,931 256,927 270 —170,001
Texas & Pacific. April Texas-Mexican April Toledo, Peoria & Western April Toledo, Peoria & Western April	1,854 1,854 162 162 239 239	4,332,067 18,100,066 262,095 988,257 392,110 1,539,449	400,567 1,690,484	5,157,692 21,439,542 283,698 1,087,057 397,984 1,561,197	670,719 2,874,300 45,087 190,960 84,651 258,313	797,850 3,375,125 21,597 101,661 26,345 105,867	163,539 664,665 5,701 23,530 35,239 130,376	2,014,840 8,771,561 66,077 292,090 103,166 406,056	3,944,921 16,868,866 152,626 667,404 274,799 1,000,222	76.5 78.7 53.8 61.4 69.1	1,212,771 4,570,676 4,570,676 131,072 419,653 123,095 560,975	426,739 1,466,348 52,572 155,532 52,135 222,880	515,577 2,150,592 58,271 188,589 48,979 250,399	2,425,662 55,979 161,152 54,952 227,771
Union Pacific         April 4 mos.           Utah         4 mos.           Virginian         4 mos.           4 mos.         4 mos.	9,727 9,727 111 111 111 663 663	25,803,423 96,279,596 117,120 689,976 3,242,042 11,821,052	2,366,893 8,766,284 	30,854,037 115,331,305 117,202 691,439 3,375,920 12,267,781	4,846,289 20,094,622 31,454 124,202 426,892 1,505,983	6,234,645 23,589,592 52,423 212,054 842,600 3,119,254	867,856 3,224,202 2,971 41,199 159,752	11,008,285 48,484,340 54,665 328,105 733,946 2,904,523	24,702,234 103,035,380 146,966 698,341 2,123,788 8,007,363	80.1 89.3 125.4 101.0 62.9	6,151,803 12,295,925 —29,764 —6,902 1,252,132 4,260,418	4,083,618 11,127,942 - 13,437 54,309 577,000 1,977,500	1,180,667 -2,568,482 -37,144 -52,678 802,998 2,756,036	991,909 7,291,646 43,792 69,946 137,269 1,639,930
Wabash     April       Ann Arbor     4 mos.       April     4 mos.       Western Maryland     4 mos.       April     4 mos.	2,393 2,393 294 294 837	6,382,403 25,607,619 667,020 2,486,986 3,634,283 14,513,728	,350,715 1,521,550 2,744 9,902 10,376 39,797	7,288,758 29,190,776 680,515 2,537,533 8,830,505 15,205,152	1,227,301 4,424,432 84,408 321,245 468,803 1,903,562	1,023,221 4,481,943 102,844 452,804 776,292 2,955,829	268,261 1,033,854 23,469 92,781 75,248 287,426	3,237,320 13,082,098 295,194 1,176,069 1,139,250 4,560,500	6,081,585 24,231,343 523,849 2,104,751 2,602,250 10,265,120	83.4 83.0 77.0 82.9 67.9	1,207,173 4,959,433 156,666 432,782 1,228,255 4,940,032	549,553 2,202,539 68,541 211,572 590,000 2,345,000	402,020 1,509,807 71,829 172,993 735,357 2,898,341	775,722 3,854,265 63,505 184,417 365,182 2,233,470
Western Pacific. April Wheeling & Lake Erie. April Wisconsin Central. April 4 mos.	1,195 1,195 506 506 1,051 1,051	3,253,250 11,587,955 3,083,932 10,985,350 2,136,065 8,216,836	313,225 846,850 11 37,507 146,744	3,674,703 12,786,070 3,266,537 11,431,335 2,314,388 8,820,069	511,943 2,015,514 416,040 1,417,836 312,967 1,124,079	590,048 2,318,359 526,184 1,882,472 366,420 1,444,401	189,367 641,427 66,750 266,370 59,057 237,829	1,149,312 4,935,314 959,017 3,473,038 1,061,547 4,025,696	2,695,647 10,798,208 2,063,844 7,384,074 1,882,042 7,169,220	73.4 64.5 64.6 81.3 81.3	979,056 1,987,862 1,202,693 4,047,261 432,346 1,650,849	408,036 944,716 632,138 2,159,959 150,661 560,791	525,268 845,056 749,462 2,655,087 169,824 564,824	63,585 1,024,618 508,790 2,302,437 490,369 953,162



Cranes that are tough—that take the gaff of heavy switching operations . . . Straight, simple, Diesel cranes that stand up under the heaviest service...Simple, rugged travel gears warranted for the life of the machine . . We know that these cranes will do your work . . We back what we know with our guarantee.

Ask for CATALOG "77"

Illustrated — Orton
12-wheel, standard
gauge locomotive
crane, capacity 60
tons, No larger crane
ever built. Catalog 77
gives detailed specifications of Orton locomotive crane construction. Send for it.
We want to show you.



BURLINGTON

ORTON

**CRANE & SHOVEL COMPANY** 

608 South Dearborn, Chicago 5, Illinois

1,882,042 7,169,220

1,444,401

1,124,079

8,820,069

140,744

# Freight Operating Statistics of Large Steam Railways — Selected Locamotive miles | Car-miles | Ton-miles (thousands) | Read-locos, on lines

			•	Locomo	tive-miles	Car	-miles	Ton-mile	s (thousan	ds)	Road-loc	os. on lin	ies
		Miles of	1	Principal	1	Loaded			Net		iceable		Per cent
	Region, road and year	road	Train-	and helper	Light	(thou-	cent		rev. and s non-rev.	Unstore	Stored	B.O.	B.O.
	. Boston & Maine	1,746	302,185	312,900	14,584	11,431	66.3	724,992	284,716 349,762	107 107	8	13 8	10.2 7.0
New	1948 N. Y., N. H. & Htfd 1949	1,746 1,774	352,815 285,011	364,901 286,401	13,479 21,953	13,102 11,896	67.7 69.4	832,068 708,525	307,082	120	13	14 27	9.5 14.6
_		1,815 794	380,868 252,577	388,530 297,956	32,805 34,322	14,878 10,602	69.4 67.3	903,898 727,529	400,479 359,443	158 115	54	26	13.3
	Delaware & Hudson	794	312,729	381,403	39,288	23,637 12,350	66.5 67.9	984,639 802,517	521,311 353,327	134 100	23 34	29 9	15.6 6.3
_	Del., Lack. & Western1949 1948	967 970	282,820 361,075	319,456 407,162	33,617 46,383	14,565	66.7	983,820 1,941,071	443,432 786,237	121 182	102	20 57	13.6 16.7
Region	Erie1949 1948	2,229 2,229	594,588 743,683	610,660 780,438	43,499 67,835	31,389 37,169	67.5 64.6	2,438,811 1	,019,168	256	21	93	25.1 13.0
	Grand Trunk Western	971 972	236,580 298,223	241,235 305,804	1,887 2,899	7,941 9,567	66.6 67.2	501,562 609,100	203,566 257,390	52 64	iġ	10 19	13.5 19.0
Lakes	Lehigh Valley	1,239 1,239	241,708 333,077	255,464 369,209	22,033 51,238	11,258 $13,887$	67.9 65.6	748,444 955,170	344,166 450.310	62 100	4	46	30.7 20.1
i L	New York Central	10.689 10,704	3,027,408 3,401,723	3,226,277 3,633,736	181,630 248,195	103,990 117,493	61.0 61.1	7,125,129 3 8,174,749 3		1,056 1,151	143 21	302 316	21.2
Great	New York, Chic. & St. L 1949 1948	1,656 1,656	615,802 702,714	627,874 712,507	6,774 9,359	24,156 27,041	65.7 65.3	1,568,050 1,770,397	650,123 760,921	140 154	17	19 14	10.8 8.3
0	Pitts. & Lake Erie	221	80,041 98,046	81,037 100,167	70	3,063 3,603	66.6 63.8	253,117 305,375	148,500 177,042	25 38	5 2	15 10	33.3 20.0
	Wabash1948	223	443,635	452,703	9,939	14,323	66.9	926,500	388,508 636,421	155 163	9	40 31	19.6 15.3
	1948   Baltimore & Ohio	2,381 6,086	641,390 1,663,107	655,501 1.997,862	15,359 212,857	23,127 58,902	70.7 63.3	1,461,562 4,253,170 2,	.014,779	723	93	285	25.9 28.6
	Central of New Jersey*1948	6,076 415	1,978,641 : 62,539		257,440 4,639	66,928 2,502	64.9 65.8	4,777,949 2 179,339	,315,232 $90,003$	804 31	6	326	19.6
Region	1948	418 212	78,487 66,025	82,031 69,150	9,285 7,289	3,221 2,371	66.0 65.8	243,403 170,843	127,929 86,440	47 29	8	16 15	25.4 28.8
n R	Central of Pennsylvania1949	213	79,018	89,363	16,034 3,807	2,932 4,889	67.9 66.6	214,364 318,535	114,601 145,648	40 33	żi	14	25.9 14.3
Eastern	Chicago & Eastern Ill1949	909	139,718 170,092	139,800 170,563	3,919	5,476	68.8	362,707	174,581 148,445	56 43		12	17.6
Eas	Elgin, Joliet & Eastern 1949 1948	238 391	99,817 121,307	100,675 127,044	4,010	3,625 3,758	65.0 66.9		151,343	47	160	4 286	7.8 14.8
Central	Pennsylvania System1949 1948	10,039 $10,023$	3,680,371	3,328,810 4,124,260	407,251 534,232	120,576 141,091	63.3 64.4		,601,244	1,488 1,805	33 44	208 23	14.4
Cen	Reading1949	1,323 1,350	354,476 472,022	370,056 519,892	32,385 55,002	12,041 16,560	59.6 63.5	1,283,830	500,979 691,235	180 226	8	27	10.3 8.5
	Western Maryland1949	837 837	165,997 193,977	201,733 226,886	25,955 29,905	5,858 6,400	62.9 61.5	472,404 522,333	256,387 280,801	148 154	13	15 15	8.8
-	Chesapeake & Ohio 1949	5,025	1,184,830 1,425,677	1,262,621	48,594	43,898 54,483	58.3 58.4	3,615,370 1 4,360,760 2	,800,741	533 600	83	118 92	16.1 12.9
Poc	Norfolk & Western 1949	5,003 2,107	624,026	662,491	62,745 46,571	26,223	58.8	2,191,758 1,	,154,686	249 233	54 47	22 27	6.8 8.8
	Atlantic Coast Line1949	2,107 5,543	677,995 970,976	723,980 986,751	49,883 15,009	28,346 25,256	60.5	2,238,548 1, 1,728,785	725,537	349	16	88	19.4 17.1
	Central of Georgia1948	5,552 1,783	1,048,238 294,061	1,077,758 299,440	17,460 4,004	27,310 7,264	63.9 71.6	1,846,701	824,631 220,884	364 109		75 9	7.6
u	Gulf, Mobile & Ohio	1,783 2,854	307,554 329,105	312,616 329,105	5,563 389	7,812 15,717	71.6 71.7	514,510	245,190 487,094	95 88	19	6	8.5 5.3
Region	1948	2,847 6,552	373,734 1,443,878	377,372	229 50,467	16,623 49,437	72.8 62.0	1,061,369 3,481,481 1,	512,606	129 533	7 23	12 89	8.1 13.8
	Illinois Central	6,581	1,423,950	1,430,302	48,285	52,004 30,566	64.3 63.1	3,595,245 1, 2,171,501 1,	669,031	500 358	69 55	80 57	12.3 12.1
Southern	Louisville & Nashville	4,765 4,750	1,201,681 1 1,451,533 1	1,570,458	30,964 41,658	35,523	63.6	2,533,644 1,	,274,800	403		79	16.4 2.7
Sout	Nash., Chatt. & St. Louis1949 1948	1,051 1,051	228,551 283,496	232,899 298,881	6,827 8,934	6,534 6,861	72.7 76.3	425,911	187,430 202,715	73 83		13 48	13.5 14.9
92	Seaboard Air Line1949 1948	4,142 4,141	864,056 881,301	922,761 943,348	15,704 14,263	25,310 25,858	59.9 67.0	1,761,461	789,029 799,223	274 295		56	16.0 20.8
	Southern	6,382 6,449	1,333,251 1 1,666,256 1		16,944 26,432	38,893 45,436		2,515,231 1, 2,856,509 1,		421 562	94 21	135 92	13.6
	Chicago & North Western1949	8,073	991,195	1,043,555	26,773	30,099 31,839	62.3 67.9		918,020 971,090	358 352	29 12	92 113	19.2 23.7
g	Chicago Great Western	8,055 1,445	984,654 1 184,737	184,838	24,423 15,702	8,911	63.9	597,873	251,605	51	· 2	9	15.0 32.5
Region	Chic., Milw., St. P. & Pac 1948	1,445 10,663	228,080 1,386,192	229,451 1,456,177	9,695 58,536	8,957 44,659	68.7 63.7	3,083,832 1,		50 451	60	25 87 108	14.5 17.4
n R	Chic., St. P., Minn. & Omaha 1949	1,606	1,450,185 1 214,569	224,995	63,548 $10,472$	45,768 5,481	67.4 66.9	3,036,860 1, 380,094	171,558	474 79	40 3	35	29.9 32.2
ster	Duluth, Missabe & Iron Range .1949	1,606 575	228,038 47,423	244,418 47,610	13,398 573	5,715 1,443	67.1 51.4	130,903	178,249 70,658	80 49	3	38	7.1
Northwes	Great Northern	569 8,222	34,336 1,028,092 1	34,498 1,027,227	675 43,481	530 37,022	50.0 64.6	40,572 2,616,401 1,	17,775 184,760	30 354	2 45	18 61	36.0 13.3
ort	Minneap., St.P. & S. Ste. M 1949	8,237 4,179	1,058,168 1 408,797	422,552	40,900 9,276	37,543 12,215	65.9 66.2	2,561,320 1,	122,182 $372,361$	350 122	55	80 13	16.5 9.6
2	Northern Pacific	4,180 6,593	435,176 802,836	446,236 844,846	10,561 44,052	12,300 30,550	69.3	777,656	357,904 975,251	124 320	28	18 59	12.7 14.5
	1948	6,613	839,782	880,529	52,964	30,785	69.9	2,070,645	981,229	355	27	43 133	10.1 14.2
OB	G. C. & S. F. and P. & S. F.) 1948	13,103	2,470,597 2 2,826,329 2	,982,517		92,428 102,626	66.1	6,216,301 2,5 6,839,765 2,7	784,915	637 684	131	138	14.5
Region	Chic., Burl. & Quincy1949	8,680 8,670	$1,161,606\ 1$ $1,283,585\ 1$	,176,183 ,311,814	30,116 44,231	45,737 49,584	63.4	3,146,640 1,3 3,384,405 1,4	395,957 186,666	416 405	31	104 101	18.3 18.8
	Chic., Rock I. & Pac	7,589 7,618	1,177,052 1 1,231,449 1	,220,880 ,268,089	14,613 16,370	37,785 40,266 12,780	61.6	2,577,244 1,0 2,644,291 1,1	091,019 130,105	265 261	39 42	55 78	15.3 20.5
estern	Denver & R. G. Wn	2,443	362,395	405,634	53,566 47,130	11,405	74.2	768,139	152,566 387,692	123 137	34 47	45 45	22.3 19.7
3	Southern Pacific	8,089 8,109	1,867,623 2 1,996,251 2 2,147,582 2 2,080,579 2 215,726	,032,672	306,515 369,466	78,183 84,332	65.5 68.9	5,227,254 2,1	144,493	722 695	27	157 175	17.1 19.5
Central	Union Pacific	9,727 9,752	2,147,582 2	,227,389 169,086	151,028 178,812	83,926 84,855	63.7 69.8	5,497,997 2,3 5,922,123 2,3 5,545,166 2,6	568,957 517,779	527 560	100	172 100	21.5 13.0
Ce	Western Pacific	1,192 1,192	215,726 218,248	238,416 238,062	23,122 24,150	9,028 9,424	71.9 77.5	598,205	281,215 277,571	58 68	46 41	19 18	15.4 14.2
1	International-Gt. Northern*1949	1,110	211,329	212,198	784	5,877	56.6	477,400 2	215,206	64	4	4	5.6
_	Kansas City Southern	1,110 886	270,489 193,254	272,043 195,087	1,530 1,946	7,018 9,178	64.5 63.6	496,934 2 658,827 3	225,846 306,217	71 46	3	6	11.3 10.9
Region	MoKansTexas Lines	885 3,241	192,239 524,607	194,605 535,205	1,347 7,537	8,639 16,615	67.1	583,515 2	267,133 502,737	43 111	8	4 38	7.3 23.6
	Missouri Pacific*	3,241 6,989	485,386 1.321,055 1	495,436	8,643 26,095	16,089 45,099	65.4	1,036,528 4	146,902 314,181	118 373	1 41	35 44	22.7 9.6
tern	1948 Texas & Pacific	6,986 1,852	1,532,488 1 402,681	,579,647	30,694	50,413 13,183	64.1 58.1	3,443,953 1,4	174,882	423 111	11 2	61	12.3 6.6
Wes	1948	1,852	588.942	588,942	17,423 14,590	18,026	59.7	1,281,927	511,012	124		10	7.5
Southwestern	St. Louis-San Francisco1949 1948 St. Louis-Souther Lines 1948	4,615	775,353 930,959	788,525 959,504	9,133 11,319	22,813 23,343	60.6	1,616,809 1,579,524	596,077 583,431	256 302	34 2 8	64 29	18.1 8.7
82	St. Louis Southw. Lines 1949  1948	1,562 1,568	393,502 452,152 831,799	395,027 453,815	5,369 6,337	15,194 17,289	69.3 73.5	1,042,336	124,263 165,939	82 91	7	14	13.5 7.5
	Texas & New Orleans	4,314 4,314	831,799 990,055	832,056 990,558	21,677 15,907	25,415 27,741	04.1	1,733,199	756,562 808,605	205 217	1 /	41 33	16.5 13.1

# Items for the Month of March 1949 Compared with March 1948

	Tems for the month of	IVI GI G	Freight	ars on line		G.t.m.per	G.t.m.pe train-mi.		Net ton-mi	Net i. ton-mi	Car miles	Net	Train- miles	per
	Region, road and year				Cent	excl.locos.	excl.loco and	s per train-	per l'd	. per car-	per car-	ton-mi.	train-	loco. per day
	Boston & Maine1949	Home 2.475	_	Total 10,709	B.O. 2.8	tenders 39,621	tenders 2,405	mile 944	mile 24.9	day 865	52.4	5,260	16.5	90.5
lew.	1948 N. Y., N. H. & Htfd 1949	1,720	10,613	12,333 17,708	2.2 1.9	34,484 36,675	2,363 2,494	993 1,081	26.7 25.8	802 543	44.4 30.3	6,462 5,584	14.6 14.8	70.5
2	T# ( 1948	1,405	19,353	20,758 10,852	1.6	31,973 55,801	2,376 2,896	1,053	26.9 33.9	53 7 1,055	28.8 46.3	7,118 14,603	13.5 19.4	80.8 58.1
	Delaware & Hudson1949	3,185	6,459	9,644 16,741	4.6 5.9	53,029 44,522	3,166 2,877	1,676 1,267	38.2 28.6	1,584 687	62.3 35.4	21,179 $11,787$	16.8 15.7	78.5 88.1
	Del., Lack. & Western	5,054		16,633 28,332	4.7	40,627 54,632	2,765 3,290	$1,246 \\ 1,333$	$\frac{30.4}{25.0}$	760 916	$37.4 \\ 54.1$	14,747 $11,378$	14.9 16.7	111.9 68.1
Region	Erie	7,400	22,323	29,723 11,461	4.2 10.3	52,856 44,101	3,299 $2,132$	1,379 865	$27.4 \\ 25.6$	985 556	55.6 32.5	$\frac{14,749}{6,763}$	16.1 20.8	81.7 121.5
88	Lehigh Valley	3,929	10,163	14,092 18,907	$\frac{6.7}{11.2}$	38,062 58,299	2,054 3,149	868 1,448	26.9 30.6	572 602	31.6 29.0	8,542 8,961	18.6 18.8	90.8
Lak	New York Central 1948	7,353	13,374	20,727 $149,242$	7.2 6.1	49,803 40,378	2,942 $2,387$	1,387 $1,034$	$\frac{32.4}{29.7}$	645 665	30.3 36.7	9,317	17.4 17.2	94.2 81.8
Great	New York, Chic. & St. L 1948	55,217	95,592	150,809 15,817	3.4	35,475 53,315	2,437 2,591	1,084 $1,074$	31.0 26.9	732 1,306	38.7 74.7	10,963	14.8 20.9	95.1 124.0 146.9
Ğ	Pitts. & Lake Erie	2,899 7,473	12,147 10,028	15,046 17,501	1.9 6.6	46,925 47,722	2,534 3,171	1,089 1,860	28.1 48.5	1,520 285	82.7	14,822 21,676 25,610	18.6 15.1 15.1	60.0 74.8
	Wabash1949	5,358	9,735	16,486 18,383	5.1 3.2	46,894 44,468	3,123 2,105	1,811	49.1 27.1	381 669	12.1 36.8 53.6	5,264 8,622	21.3 19.4	78.6 111.6
	Baltimore & Ohio	5,403	14,105 34,366	19,568 98,315	2.9 9.7	44,175 35,765	2,298 2,603	1,001 $1,233$	27.5 34.2	1,043	31.4	10,679	14.0	66.5
ū	Central of New Jersey*1948	50,389	41,326 8,246	91,715 9,250	5.9 5.6	$31,620 \\ 38,936$	2,467 $2,957$	1,195 1,484	34.6 36.0	835 301	37.2 12.7	12,292 6,996	13.1 13.6	80.1 78.6
Region	Central of Pennsylvania 1948	620	10,317 2,928	10,937 $5,224$	$\frac{4.5}{9.0}$	38,223 39,265	3,199 $2,749$	1,681 $1,391$	39.7 36.5	362 540	13.8 22.5	9,873 13,153	12.3 15.2	75.5 54.3 73.2
	1948 Chicago & Eastern Ill1949	884	3,829 3,238	4,713 6,568	$\frac{7.1}{7.2}$	37,900 40,588	2,862 2,290	1,530 1,047	39.1 29.8	773 730	29.1 36.8	17,356 5,169 6,195	14.0 $17.8$ $17.4$	72.4 84.8
Eastern	1948 Elgin, Joliet & Eastern	2,476 6,920	4,143	6,619 18,804	1.6	37,026 20,032	2,190 2,967	1,054	31.9 41.0	908 255 260	41.4 9.6 9.7	20,120 12,486	7.2	99.1 116.4
	Pennsylvania System	6,510 150,612	11,648 87,485	18,158 $238,097$	2.4 8.7	14,824 41,513	2,478 2,870	1,321 $1,309$ $1,288$	40.3 31.8 32.6	524 624	26.0 29.7	12,302 14,809	14.9 13.6	68.0 76.3
Central	Reading	123,023 17,213	16,356	240,244 33,569	9.5 5.5	36,079 36,094	2,735 2,749 2,730	1,415 1,470	41.6 41.7	480 683	19.4 25.8	12,215 16,517	13.1 12.0	62.8 83.1
Ö	1948   Western Maryland1949	9,328 7,386	3,267	31,852 10,653	3.7 1.2 .8	32,611 $40,082$ $29,492$	2,890 2,740	1,569 1,473	43.8 43.9	803 1,131	29.2 41.9	9,881 10,822	14.1 11.0	45.7 53.2
	1948	4,953 69,108	4,088 20,840	9,041 89,948	2.4	.50,980	3,075	1,532	41.0	681	28.4 39.1	11,560 15,151	16.7 15.6	62.4 77.7
Oca	1948 Norfolk & Western 1949	58,935 44,084	26,564 5,938	85,499 50,022	3.1 5.0	47,680 59,055	3,100	1,670 1,875	$43.1 \\ 44.0 \\ 44.1$	985 796 996	30.7 37.3	17,678 19,137	16.8 16.4	76.4 87.5
	Atlantic Coast Line1949	39,050 12,446	6,615 15,612	45,665 28,058	1.8 5.2	54,093 29,681	3,351 1,785	1,871 749	28.7	834	48.2	4,222	16.7	75.8 89.1
	Central of Georgia	8,764 3,506	19,348 4,901	28,112 8,407	5.0 7.5	27,207 29,199	1,767 1,609	789 753	30.2 30.4	911 856	47.3 39.3	4,791 3,996	15.4 18.2	93.8 103.5
u	Gulf, Mobile & Ohio1949	1,999 4,354	6,229 9,892	8,228 14,246	3.5 2.2	30,025 59,986	1,679 3,133	800 1,483	31.4 31.0	1,032 $1,122$	46.0 50.5	4,436 5,506 5,808	17.9 19.2 18.8	98.6 87.7
Region	1948   Illinois Central	2,849 $27,222$	12,171 $25,655$	15,020 52,877	1.7 2.2	53,521 44,650	2,850 2,443	1,377 1,114	$30.8 \\ 32.1 \\ 32.1$	1,097 973 987	48.9 48.9 47.8	7,820 8,181	18.5 16.6	79.5 77.7
	Louisville & Nashville1948	20,832 44,570	36,710 12,691	57,542 57,261	2.9	41,791 29,506	2,563 1,813 1,745	1,190 898 878	35.2 35.9	634 840	28.5 36.8	7,285 8,657	16.3 15.3	95.3 112.3
Southern	Nash., Chatt. & St. Louis 1949	39,470 2,459	15,608 4,320	55,078 6,779	$\frac{2.6}{10.5}$	26,705 35,713 28,600	1,795 1,511	824 719	28.7 29.5	941 920	45.1 40.8	5,753 6,222	20.0 19.0	109.4 108.8
So	Seaboard Air Line	1,459 11,003	4.922 13,238	6,381 $24,241$ $22,751$	1.4 1.8	37,695 34,497	2,202 2,051	942 931	31.2 30.9	1,069 1,094	57.3 52.8	6,145 6,226	$17.7 \\ 17.3$	104.6 102.7
	Southern	6,627 17,982	16,124 28,449 29,358	46,431 42,433	5.4	33,436 29,051	1,899 1,734	807 774	27.5 28.1	737 944	41.3 48.4	5,403 6,378	17.7 16.9	73.1 88.6
	Chicago & North Western1949	13,075 22,317	23,143	45,460	2.7	33,523 31,320	2,267 2,265	980 1,032	30.5 30.5	619 584	$\frac{32.6}{28.2}$	3,668 3,889	15.6 14.5	79.2 77.3
а	Chicago Great Western	19,504 2,063	34,381 4,775	53,885 6,838	3.2 5.5 4.0	51,737 40,709	3,236 2,541	1,362 1,110	28.2 28.3	1,149 1,358	63.7 70.0	5,617 5,649	16.0 16.0	110.9 100.8
Region	Chic., Milw., St. P. & Pac 1949	1,194 31,415	4,617 27,370 38,628	5,811 58,784 61,228	1.4	35,850 30,583	$\frac{2,240}{2,117}$	991 962	30.5 30.2	724 676	37.2 33.3	4,127 4,175	16.1 14.6	87.7 87.8
n R	Chic., St. P., Minn. & Omaha 1949	22,600 1,146 879	5,689 7,075	6,835 7,954	3.5 5.4	25,222 22,575	1,856 1,786	838 808	31.3 31.2	727 689	34.7 32.9	3,446 3,580	14.2 13.1	72.3 78.5
ester	Duluth, Missabe & Iron Range .1948 1948	14,888 14,586	420 688	15,308 15,274	3.1	41,333 15,474	2,874 1,242	1,551 544	49.0 33.5	146 38	5.8 2.3	3,964 1,008	$15.0 \\ 13.1$	35.1 27.7
Northwest	Great Northern	25,347 21,228	16,502 22,470	41,849 43,698	3.2	40,724 37,684	2,559 2,434	1,159 1,067	32.0 30,0	898 842	43.4	4,648 4,395	16.0 15.6	83.6 79.1
Nor	Minneap., St.P. & S. Ste. M 1949 1948	6,611 6,147	7,125 9,714	13,736 15,861	6.4 5.4	34,944 29,796	1,993 1,799	919 828	$30.5 \\ 29.1$	821 714	40.7 35.4	2,874 2,762	17.7 16.7	$112.6 \\ 109.7$
	Northern Pacific	20,573 $17,270$	14,884 18,796	35,457 36,066	$\frac{7.0}{4.3}$	44,537 41,660	2,622 2,479	1,220 $1,175$	$\frac{32.0}{31.9}$	883 896	39.9 40.2	4,772 4,786	17.1 16.9	75.9 77.4
g	Atch., Top. & S. Fe (incl. 1949 G. C. & S. F. and P. & S. F.) 1948	49,584 38,004	27,749 33,298	77,333 71,302	4.8 6.2	51,510 48,484	2,526 2,429	1,026 989	$27.3 \\ 27.1$	$1.070 \\ 1,318$	59.4 73.5	6,217 6,867	$20.5 \\ 20.0$	98.2 109.4
Region	Chic., Burl. & Quincy1949 1948	19,058 15,961	27,717 25,936	40,775 41,897	3.3 3.5	49,959 45,195	2,718 2,648	1,206 $1,163$	$30.5 \\ 30.0$	1,038 1,139	53.2 59.9	5,188 5,531	18.4 17.1	74.9 86.2
	Chic., Rock I. & Pac	12,820 8,997	21,504 $24,687$	34,324 33,684	$\frac{3.7}{4.1}$	40,613 37,578	2,198 2,152	930 920	28.9 28.1	1,012 $1,091$	56.9 60.1	4,638 4,785	18.5 17.5	113.9 112.3
Western	Denver & R. G. Wn	8,395 7,428	5,906 4,915	14,301 $12,343$	4.6	41,332 39,901	2,539 2,323	1,259 $1,173$	$35.4 \\ 34.0$	928 977	37.8 38.7	5,976 5,119	16.4 17.3	76.2 61.9
M	Southern Pacific	27,616 23,853	34,697 33,093	62,313 56,946	4.6 3.8	45,712 $45,102$	2,822 2,774	1,158 $1,182$	27.4 27.8	1,122 1,305	62.5 68.2	8,552 9,315	16.3	87.6 97.6
Central	Union Pacific	29,701 26,134	30,910 30,906	60,611 57,040	3.4 3.5	57,810 55,135	2,784 2,687	1,208 1,269	30.6 30.9	1,319 1,521	67.6 70.6	8,520 8,659	21.0	100.5 101.3
ರ	Western Pacific	2,284 $2,094$	$\frac{2,210}{3,032}$	4,494 5,126	9.8 6.2	57,781 $57,129$	2,791 2,698	$1,312 \\ 1,284$	31.1 29.5	1,938 $1,670$	86.6 73.2	7,610 7,512	20.8 21.4	70.3 68.9
	International-Gt. Northern*1949 1948	920 477	6,508 6,910	7,428 7,387	1.3	43,204 33,686	2,283 1.863	1,029 847	36.6 32.2	918 1,012	44.3 48.7	6,254 6,563	19.1 18.3	101.1 115.9
ion	Kansas City Southern	1,701 1,199	5,887 5,646	7,588 6,845	5.0 3.9	67,593 58,917	3,429 3,052	1,594 1,397	33.4 30.9	1,281 1,283	61.8	11,149 9,737	19.8 19.4	125.6 121.0
Region	MoKansTexas Lines1949 1948	4,429 1,909	6,379 7,756	10,808 9,665	1.9	41,529 39,871	2,218 2,143	966 924	30.3 27.8	1,505 1,509	81.4	5,004 4,448	18.9 18.7	117.7
E	1948	17,935 15,877	17,575 $22,930$	35,510 38,807	$\frac{2.0}{1.8}$	46,418 41,631	2,350 2,259	1,000 967	29.1 29.3	1,194 1,247	64.0 66.5	6,066 6,810	19.8	110.6
Southwestern	Texas & Pacific	2,598 1,683	5,924 9,065	8,522 10,748	2.3	49,356 40,084	2,351 2,197	867 876	26.4 28.3	1,314	85.6 95.6	6,064 8,901	21.1 18.4	119.1 155.5
uth	1948	11,606 6,322	11,833 12,495	23,439 18,817	2.7	40,321 34,403	2,095 1,704	902 737	30.5 29.3	983 1,167	53.2 61.4	4,865 4,777 8,762	19.3 20.3 19.3	79.0 100.0 131.8
So	St. Louis Southw. Lines	2,000 1,155	4,874 6,025	6,874 7,180	2.0	46,628 43,572	2,308	1,080 1,032	27.9 27.0	1,934 2,012	100.0 101.5	8,762 9,586 5,657	19.3 18.9 19.6	131.8 147.0 116.6
1	Texas & New Orleans	4 890 3,983		21,543 20,233	$\frac{2.4}{3.0}$	40,748 36,775	2,104 1,846	919 823	29.8 29.1	1 147 1,313	57.4 63.1	6,046	20.1	137.0
	Minness .													

<sup>\*</sup>Report of trustee or trustees.

Compiled by the Bureau of Transport Economics and Statistics, Interstate Commerce Commission. Subject to revision.





# DON'T LET HIGH COSTS HOLD YOU UP!

# Now you can have custom-built housing at mass-production prices

Whether you need a small warehouse or a large industrial plant, Luria can help you cut your building costs — without "cutting corners." For Standard Buildings by Luria are permanent, heavy steel-frame structures that cost little or no more than lightweight "pre-fabs" and much less than specially-engineered buildings. Moreover, Luria buildings are designed to meet the most exacting building codes. They're easy to erect, economical to maintain and available now. Write today for our new 20-page catalog on the complete line.

### PEATURES

- Rigid-Frame Construction, without spaceconsuming trusses
- Clear spans of 40 to 100 feet
- Eave heights of 12 to 20 feet
- Lengths as desired in 20-foot increments
- Wide choice of standard alternates, optional features, and collateral materials

# Standard Buildings by LURIA

LURIA ENGINEERING CORPORATION, Dept. G32 500 Fifth Avenue, New York 18, N. Y.

# **GENERAL NEWS**

(Continued from page 69)

## Faricy Heads Pan American Rail Group Named by Truman

William T. Faricy, president of the Association of American Railroads, has been appointed by President Truman as chairman of the United States National Commission in the Pan American Railway Congress Association. James G. Lyne, president of the Simmons-Boardman Publishing Corporation and editor of Railway Age, is one of the seven other members of the commission who were also appointed by the President on June 14.

The other members are: Secretary of Commerce Charles Sawyer; Willard L. Thorp, assistant secretary of state; Chairman Charles D. Mahaffie of the Interstate Commerce Commission; J. M. Hood, president of the American Short Line Railroad Association; A. E. Lyon, executive secretary of the Railway Labor Executives' Association; and George P. Baker, professor of transportation, Graduate School of Business Administration, Harvard University.

The appointments were announced by the Department of State in a statement which also said that the commission will hold its first meeting in Washington, D. C., on June 21. The statement went on to say that the commission's responsibilities "are outlined in general terms in the charter of the Pan American Railway Congress Association as including assistance in the organization of periodic congresses and preparation of special studies." Congress provided for this country's participation in the association's activities by legislation which was approved by the President on June 28, 1948.

The aims of the association are "to promote the development and progress of railways in the American continent" by holding congresses, publishing a bulletin and other documents, and maintaining information services. The association has held six congresses since 1910, the sixth having been held in Havana, Cuba, in April, 1948. The seventh congress will be held in Mexico City in October, 1950. The following 17 countries are now members of the association: Argentina, Bolivia, Brazil, Chile, Colombia, Cuba, Dominican Republic, Ecuador, El Salvador, Haiti, Mexico, Panama, Paraguay, Peru, United States, Uruguay, and Venezuela.

### Sees Signs of Turn Toward Reduction in Loss and Damage

The fact that fewer claims for freight lost or damaged were filed in 1948 than in 1947 has been cited by the Freight Claim Division, Association of American Railroads, as an indication of "a definite turn toward reduction in loss and damage to railroad shipments." The division on June 14 reported to its member roads

that claims filed last year totaled 4,890,-601, a reduction of 17 per cent below the 5,872,542 filed in 1947.

Meanwhile, however, the amount paid in settlement of 1948 claims was \$135 million, \$13 million more than in 1947. This \$135 million figure (like others in the division's report) covers Canadian as well as United States roads; and is thus larger than the figure (\$129.5 million) for 1948 claim payments of Class I line-haul roads reporting to the Interstate Commerce Commission, which was used by the commission's Bureau of Transport Economics and Statistics in the latest issue of its "Monthly Comment" (see article elsewhere in this issue).

nan

the

has

n as

Rail-

ard-

litor

ther

vere

une

air-

ter-

M.

ort

on,

bor

ad.

on,

by

nt

n.

nt

ıg

ic

al

G.

In commenting on the \$13 million increase in 1948 payments above 1947, the A.A.R. division said that "a major part of the claims paid in 1948 were for damage occurring previously," and that "a substantial part of the increase in claims payments was due to the continued rise in prices." It added that the number of claims in process of settlement at the end of 1948 was 31 per cent fewer than it was a year before, and this was interpreted as indicating "both substantial progress in expediting settlements for past claims and a favorable effect upon 1949 settlements." The division also said:

"What has been accomplished by the combined efforts of shippers and the railroads has already shown that there is real hope for continued and substantial improvement in reducing freight loss and damage. Efforts made by the railroads with the cooperation of shippers to further reduce loss and damage will be intensified during 1949. The Perfect Shipping Campaign will be continued on a year-round basis and its effects will be reflected in improved packaging, marking and handling.

"The condition of the average freight car will improve steadily, with the result that good floors, walls and doorposts will reduce potential damage hazards. Better protection for freight will also come from new and more adequate shipping containers of all types, which are in more abundant supply, while increased mechanization of equipment for freight handling at terminals and freight stations will contribute much to safer transportation."

### New Volume of Interstate Commerce Acts Annotated

Secretary W. P. Bartel of the Interstate Commerce Commission has announced that Volume 14 of the Interstate Commerce Acts Annotated is now on sale at the Government Printing Office, Washington, D. C. The price is \$2 per copy.

The volume is known as the 1948 supplement. It covers statutes enacted and amendments to the law since issuance of the previous volume, annotations of decisions of the commission and the courts, a table of federal precedents cited, a table of cases with their histories, interpretations of the commission's rules of practice, and references to regulations of the commission with Federal Register page citations.



# Alaskan R. R. Refrigerator Car Doors are Weatherstripped with BRIDGEPORT INNER-SEAL

Uniquely designed and ruggedly constructed\*, Inner-seal Weatherstrip was chosen recently for main door gaskets on 125 Jumbo Refrigerator Cars to be used by the Alaska Railroad. The cars, remodeled from wartime troop sleepers by the Chicago Freight Car and Parts Co., will be subjected to most extreme operating conditions. Winter temperatures often drop to -67° while midsummer heat hits 95°, yet car interiors must be held between 35° and 40° to protect highly perishable foodstuffs being shipped from Canada and the U. S.

That Inner-seal will meet this test has been proved through experience. On special refrigerator cars subject to temperatures of -110°F where evaporation losses had been 30% and higher, Inner-seal gaskets sealed so perfectly that losses dropped to less than 3%.

Write today for data sheet giving complete details on sizes, shapes and materials.



\*A live sponge rubber bead molded for life onto a flange woven of rust-resistant, tough spring wire and strong cotton thread. Bead and flange are neoprenecoated to resist the ravages of sunlight, oils and abrasives.



BRIDGEPORT 1, CONN.



ONE STEP in the right
direction and you're
in comfortable, cheerful

HOTEL CLEVELAND.

Convenient to stores,
Public Auditorium, Stadium,
theatres. Directly connected
by covered passage to
Union Passenger Terminal,
garage, Terminal office
buildings.

Best choice of rooms Thursday through Monday. All rooms with radio . . . many with television.

Hatel

CLEVELAND. OHIO

# **Current Publications**

### TRADE PUBLICATIONS

Yale Load King Scale Weight Printer. 12 pages, 3 colors. Published by the Yale & Towne Manufacturing Co., Philadelphia 15. Pa.

Describes and illustrates this company's weight printer, explaining why it was developed, how it operates, the functions it will perform, how it is constructed, and what models are available to perform a particular job.

Aluminum Structural Design. 124 pages. Published by the Reynolds Metals Company, 2500 South Third st., Louisville 1, Ky.

A handbook on the design of load-carrying aluminum structures. The purpose of the book is to enable the engineer familiar with mechanics of materials to design an original structure of aluminum, or to convert an existing structural design from some other material to aluminum.

### PAMPHLETS

Bulletin No. 76 of the Railway & Locomotive Historical Society. 80 pages, illustrations. Published by the Railway & Locomotive Historical Society, Baker Library, Harvard Business School, Boston, Mass. Price, to members, \$1; to non-members, \$2.

This bulletin presents the first portion of a contribution by Charles F. H. Allen on "The Railroads of McKean County, Pa., Including the Narrow Gage System of the Erie," with several interesting photographs of the famous Kinzua bridge accompanying the article. Also contained in this bulletin is an article covering the Denver & Rio Grande Western in and around the San Juan mountains, the last in the "Rails Among Peaks" series by Josie Moore Crum; and "The Chicago & Aurora Railroad (Part II)," by A. W. Newton, giving a further account of the formation of the present Chicago, Burlington & Quincy.

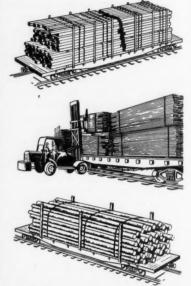
Toxic Eye Hazards. 102 pages, illustrations, tables, reference list for additional reading. Published by the National Society for the Prevention of Blindness, 1790 Broadway, New York 19. Price, \$1, with reductions for quantity orders.

Designed both for laymen and professional personnel, this manual should prove useful to safety engineers, claim adjusters, medical directors or others dealing with industrial eye injuries and problems of protection. It covers types of protective equipment best suited to specific hazards, a standard program for eye safety from chemical exposure, tables of toxic chemicals and specific first aid procedures for chemical eye injuries.

The Great Illusion—An Inexhaustible Public Purse, by Thomas S. Holden. 23 pages, tables, charts, appendices. Published by the National Association of Manufacturers, 14 W. 49th st., New York 20.

One of the problems of centralized government, far removed in its policy-making from the community life of its citizens, is

# How Bundled Lumber Saves Money for American Railroads



If your problems are railroad operation, maintenance or traffic, it's to your advantage when mills and other suppliers ship lumber bundled with flat steel strapping and loadbraced with Acme Unit-Load Band. Here's why:

Bundled lumber, held in the grip of strong steel bands, helps—

- Teliminate the chance of injury to railroad personnel.
- 2 Save the expense of rip-track adjustments of loads.
- 3 Avoid the possibility of damage to railroad equipment.
- 4 Obtain greater use of equipment through faster loading and unloading.
- 5 Speed deliveries to consignees.

Your shippers save, too, when they use the economical packaging and safe loading processes developed by Acme engineers. You can do them a favor—and yourself, too—by explaining how Acme methods benefit shippers, carriers, and receivers. For full details, write today to Dept. RA-69, 2838 Archer Avenue, Chicago 8, Illinois

STRAPPING DIVISION

### ACME STEEL COMPANY

New York 17 Atlanta Chicago 8 Los Angeles 11.

the illusion that money received from that government is "free money." This illusion may have a certain temporary substance when the government is spending substantially more money than it takes in, as was the case in this nation from 1930 through 1946. Over the long pull, however, people pay for all they get, plus interest charges from past periods of deficit financing and overhead costs incident to sending the money to the central government and then getting it back again. One of the means by which the illusion is fostered and perpetuated is the system of grantsin-aid from the central government to other governmental levels-which is the subject covered by this study. It was found that proponents of federal grants-in-aid currently place strong reliance on two major arguments: "(I) If we can afford X billions for this purpose, we can afford Y millions for grants to the states, and (II) the 'poorer' states need Federal aid." It is hoped that this report will stimulate discussion of the validity of these arguments, and thus contribute to the review of policy on grants-in-aid in the light of overall government commitments and the states' need for financial assistance from the federal government.

### PERIODICAL ARTICLE

The Coming Crisis in Transportation. Fortune, June, 1949, pp. 71-73. Published by Time, Inc., 540 N. Michigan ave., Chicago 11. Single copies, \$1.25.

All railroad men may not agree with all the conclusions set forth in this thumbnail sketch of the nation's transportation problem. But most railroad men will probably subscribe wholeheartedly to most of those conclusions. The fact that so widely distributed a publication as Fortune recognizes the existence of the problem, and discusses it so frankly and effectively, is in itself enough to support the hope that the problem will be even more generally recognized, and perhaps solved, before things are allowed to drift to a point where socialization becomes the only possible answer.

There are now, Fortune says, only two alternatives; one, of course, is government ownership, and the other "is to let rails assume a more dynamic role in the economy. This means that government and labor must stop treating them as the monopoly they no longer are. It means that they must be allowed to abandon hopelessly unprofitable operations. It means they must be allowed to market their product—to set rates quickly and boldly. . . . All this means nothing less than a radical revision of the Interstate Commerce Act. . . .

"The time is plainly at hand when the people and the Congress, who have been shunning a decision so long, must act. The dead hand of government control must be lifted from the living channels of commerce and trade. The American railroads must be put back into the free enterprise system."

HERE IS AMAZING

PROOF OF THE LONG LIFE BUILT

AIR-PUSH <

MOTOR!

INTO EVERY

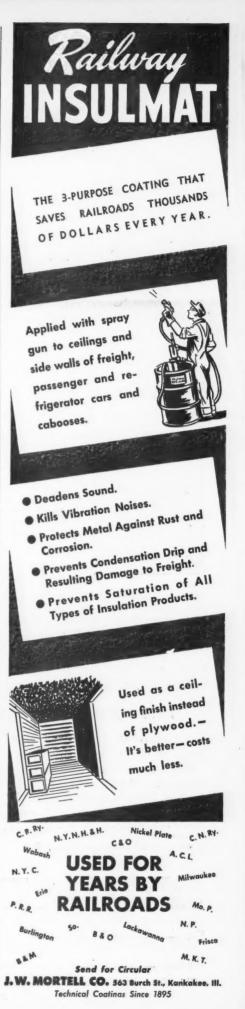


Recently an "AIR-PUSH" windshield wiper was taken off test and disassembled for inspection. This is not the end of the test . . . it will be reassembled (without replacements) and con-

tinued, to further add to the following figures. Here are the amazing results: 3,572 hours of intermittent operation under heavy overload conditions, simulating extreme weather and operating conditions. This motor has made 12,859,200 cycles or 25,790,400 strokes . . . without a single part replacement! This is the equivalent of over 7 years normal use. Here is actual proof of the low maintenance of Sprague AIR-PUSH" windshield wiper motors.



- MICHIGAN CITY, INDIANA -



# New Railroad Books

# Selected Papers and Addresses of JOSEPH B. EASTMAN



The state papers and addresses of the late Director of the Office of Defense Transportation in 1942-1944. Edited and with an introduction by Dr. G. Lloyd Wilson. Mr. Eastman was one of America's greatest public administrators and these addresses reflect his broad vision and integrity in meeting wartime situations.

381 pages, frontispiece, 6 x 9, \$4.00

# A Practical Evaluation of RAILROAD MOTIVE POWER

By P. W. Kiefer

Chief Engineer, Motive Power and Rolling Stock, New York Central

The first authoritative information in book form of the comparative advantages of standard types of railroad motive power — steam, Diesel-electric, and electric. Based upon a study of comparative operating costs made by the New York Central System.

66 pages, 4 illus., 7 charts, 5½ x 8¾, \$2.50

# THE 727th RAILWAY OPERATING BATTALION in World War II



This official history of the most decorated railway battalion in the late war is fascinating reading for railroaders. How these 800 men from all parts of the country were trained at Camp Shelby, Mississippi, under the auspices of the Southern Railway, in 1942, will interest any ex-service man. The experiences of this crack outfit of fighting railroaders in taking over railroads in North Africa, Sicily, Italy, France and Germany, repairing track and equipment and moving supplies to the battle

moving supplies to the battle fronts in record time, is an epic. The book is illustrated with 225 photographs, six operation maps and endpaper colored route maps. Beautifully printed and bound and a collector's item for any railroad library.

102 pages, 225 illus., 8 maps, complete roster, 8\% x 11\%, buckram, \$5.00

# LAYING OUT FOR BOILER MAKERS





A standard reference in railroad boiler and sheet metal shops for more than forty years. The Fifth Edition has been enlarged and brought up to date. New chapters on Laying Out for Welded Construction, Laying Out and Computing Boiler Patches, and Laying Out the Locomotive Boiler.

The

the n

meet

shou

1.

10

522 pages, 762 scale drawings, index, 8½ x 11¼, \$8.00

### FREE EXAMINATION ORDER FORM

Simmons-Boardman Publishing Corporation 30 Church Street, New York 7, N. Y.

Please send the book or books checked on Ten Days' Free Examination. If not entirely satisfied I will mail them back postpaid. Otherwise I will remit the list price.

☐ Joseph B. Eastman, \$4.00	727th Railway Battalion, \$5.00
☐ Freight Rate Application, \$3.50 ☐ Railroad Motive Power, \$2.50	Laying Out for Boiler Makers, \$8.0
☐ Routing and Misrouting of Freig	ht, \$4.00

14amc		•••
Address		
City	Zone State	
Company	Position	
(This offer is limit	ed to retail customers in the United State	:5)
	R.A. 6-18-	-49

# FREIGHT RATE APPLICATION

By Glenn L. Shinn





A convenient reference for the correct interpretation of freight tariffs and a comprehensive guide for any student of the subject. Presents clearly and concisely the rules and principles of tariff interpretation which govern the determination of freight rates under Section 6, Paragraph 7, of the Interstate Commerce Act. 160 pages, 2 illus., index, 6 x 9, \$3.50

# ROUTING AND MISROUTING OF FREIGHT

By Glenn L. Shinn

Misrouting problems are simplified and principles explained in non-technical language. Rights, obligations and liabilities of railroads and shippers are classified. Reconsigned shipments, embargoes, kinds of damages and liabilities as between railroads are given special treatment.

220 pages, 10 routing diagrams, 100 citations, index, 6 x 9, \$4.00